April 10, 2015

TO: Academic Senate Members

FROM: Office of Academic Governance
Chris McGowan, Academic Governance Secretary

RE: Academic Senate Meeting

The Academic Senate will meet on Wednesday, April 15, 2015 at 2:00 p.m. in the TI Auditorium, ECS South 2.102.

Please bring the agenda packet with you to this meeting. If you cannot attend, please notify me at x4791.

xc: David Daniel
Hobson Wildenthal
Andrew Blanchard
Serenity King

John Wiorkowski
Calvin Jamison
Inga Musselman
Larry Redlinger

Darrelene Rachavong
Abby Kratz
Chief Larry Zacharias
Deans

Paula Austell, SC President
Brooke Knudtson, SG President

2014-2015 ACADEMIC SENATE

Ackerman, Robert Ferguson, John Masha, Emire
Al-Dhahir, Naofal Fumagalli, Andrea Na, Jinkyung
Anderson, Frank Gans, Nicholas Pickens, Jared
Balanov, Zalman Gel, Yuha Polze, Matthew
Balsara, Poras Gelb, Lev Prakash, Ravi
Baynham, Karen Holmes, Jennifer Ramakrishna, Viswanath
Beron, Kurt Hooshyan, M. Ali Redman, Timothy
Brackin, Adam Ishak-Boushaki, Mustapha Rippel, Scott
Bradbury, Judd Izen, Joseph Ryan, Christopher
Breen, Gall Krawevicz, Wieslaw Salamasick, Mark
Brown, Matthew Lambert, Carrie Salter, Liz
Burr, John Leaf, Murray Schlobohm, Betsy
Chandrasekaran, R. Lewis, Vance Scott, Richard
Cordell, David ** Lockhart, Michele Thompson, Lucien
Decourcy, George Ma, Dongsheng Tiefelsdorf, Michael
Deluca, Eugene McAfee, Jason Torlak, Murat
Dieckmann, Greg Miller, Dennis Wissinger, Tonja
Dragovic, Vladimir Murphy, Jessica Zentner, Alejandro

*Speaker
**Secretary
AGENDA
ACADEMIC SENATE MEETING
April 15, 2015

1. Call to Order, Announcements & Questions
   Dr. Daniel

2. Approval of the Agenda
   Dr. Redman

3. Approval of Minutes
   March 25, 2015 Meeting
   Dr. Redman

4. Speaker’s Report
   Dr. Redman

5. Office 365 Email Conversion
   R. David Crain

6. OneCard System Overview
   Christy Baxter and Jené Janich

7. FAC / TXCFS Report
   Dr. Leaf

8. Student Government Liaison Report

9. CEP Proposals
   Dr. Radhakrishnan
   A. Undergraduate 1st 40 policies
   B. 2015 undergraduate degree programs
   C. Undergraduate new/ revised courses
   D. Graduate 1st 40 policies
   E. 2015 graduate degree programs
   F. Graduate revised courses

10. Approval of Candidates for Graduation
    Dr. Cordell

11. Non-Substantive Changes to Committee Charges
    Dr. Redman

12. Second vote for Senate By-laws part 2
    Dr. Redman

13. Email vote for Summer Graduates
    Dr. Redman

13. Adjournment
    Dr. Daniel
ACADEMIC SENATE MEETING

UNAPPROVED AND UNCORRECTED MINUTES

These minutes are disseminated to provide timely information to the Academic Senate. They have not been approved by the body in question, and, therefore, they are not the official minutes.

ACADEMIC SENATE MEETING
March 25, 2015

Present: Hobson Wildenthal, Naofal Al-Dhair, Frank Anderson, Karen Baynham, Kurt Beron, Judd Bradbury, Matthew Brown, R. Chandrasekaran, David Cordell, George Decourcy, Gregg Dieckmann, Vladimir Dragovic, Nicholas Gans, Yulia Gel, Lev Gelb, Jennifer Holmes, Mustapha Ishak-Boushaki, Joe Izen, Wieslaw Krawcewicz, Carie Lambert, Vance Lewis, Jason McAfee, Matthew Polze, Viswanath Ramakrishna, Tim Redman, Scott Rippel, Christopher Ryan, Liz Salter, Betsy Schlobohm, Richard Scotch, Michael Tiefelsdorf, Tres Thompson, Tonia Wissinger, Alejandro Zentner

Absent: David Daniel, Zalman Balanov, Poras Balsara, Gail Breen, John Burr, Eugene Deluke, John Ferguson, Andrea Fumagalli, M. Ali Hooshyar, Murray Leaf, Michele Lockhart, Dennis Miller, Emire Muslu, Jinkyong Na, Jared Pickens, Ravi Prakash, Mark Salamasick, Murat Torlak

Visitors: Andrew Blanchard, Karl Wolff, Molly Vaughn, Abby Kratz, Inga Musselman, Chris Parr, Suresh Radhankrishnan,

1. Call to Order, Announcements and Questions
Provost Wildenthal called the meeting to order at 2:04 PM. President Daniel was out of town. There were no announcements, and Provost Wildenthal opened the floor to questions. A question was raised about how the gun bill that was passed by the Senate would affect the university. The response was a wait and see if the governor will sign the bill, and then proceed accordingly.

2. Approval of the Agenda
Matt Brown moved to approve the agenda. Vance Lewis seconded. The motion carried.

3. Approval of Minutes
Greg Dieckman submitted a series of small corrections prior to the meeting. Judd Bradbury moved to approve the amended minutes. Matt Brown seconded. The motion carried.

4. Speaker’s Report – Tim Redman
Everything was on the agenda.

5. Non-Substantive changes to UTDPP1007 – Faculty Senate By Laws
Tim Redman proposed updates to the Senate by laws that were non-substantive. All changes were intended to bring the bylaws in line with current Senate practices. The motion to approve was made by the Council, and therefore did not require a second. The motion carried. The changes will return to the Senate for a second vote.
6. FAC/ TXCFS Report- Richard Scotch

Report on the Texas Council of Faculty Senate spring meeting.
Murray J. Leaf.

The meeting was held at the Embassy Suites, Austin, February 27 and 28th. Murray Leaf and Richard Scotch attended as the representatives of UT Dallas.

The first speaker was Ross Ramsey, editor and cofounder of the Texas Tribune. He presented an informative and not too depressing view of the prospects for higher education with the new governor and legislative mix. The assembly was appreciative, both of what Ramsey said and of the Tribune's coverage of higher education. This coverage will continue.

The next event was a panel titled Collegiality, Bullying, and the Academy. What was meant by bullying turned out to be aggressive, unmannerly, and uncivil behavior. The problem was what to do about it. Each speaker represented a different approach. Michael Fisher, VP for Academic Affairs at Trinity University, described the way they developed a very simple policy, essentially consisting of three statements that required civil behavior. The key was in the last statement that referred uncivil behavior to a peer assessment process. So the touchstone is actually to compel people whose behavior is uncivil to face community consensus. Marbury Anne Oliver, Professor of Counseling at Texas A&M College Corpus Christi, represented a kind of soft therapeutic approach, focusing on one-on-one consultations. Mary Steinhardt, Prof. of Health Behavior and University Faculty ombudsman at UT Austin, talked about her office. She is bound by a commitment to the code of ethics of an association of ombudsmen. This requires the process to be entirely confidential unless the ombudsman had the permission of the complaining person to involve others. Her experience has been that a large number of people feel better simply talking about the problem and they do not want her to do anything further. For the rest, she generally does get permission to involve others and does so. The panel did not reach a conclusion on their own but I suggested one that they accepted. This was that the way to rein in uncivil behavior was to get it out in the open and make it subject to faculty consensus. If the campus did not have a mechanism for doing this, they should develop one.

Next, Peter Hugill, Prof. of Geography at Texas A&M and past president of the Texas AAUP, gave an overview of the AAUP's development in the hundred years since it was founded in 1915.

The banquet speaker was Texas State Representative Travis Clardy, from Nacogdoches. He is a member of the House Higher Education Committee, and also on the Calendar Committee. Like Ramsey, the general sense of his presentation was that the support for higher education will be stronger in the coming political term than in the last. Gov. Abbott has expressed his appreciation of research and the legislature will agree. Everyone seems to appreciate the need for authorizing TRB's. He thinks there will be a bill allowing concealed weapons on campuses, but seems to think that greater support would be for a version that allowed campuses to opt out. He also thinks there will be some amendment of the Hazelwood act reducing the number of dependents of veterans eligible for tuition support. The discussion focused almost entirely on the concealed carry issue. Clardy’s response at
The very end of the discussion session was to call attention to this distraction and say that he wished he had heard more about more directly educational matters.

The campus reports seemed to present a change in tone from previous years. The most conspicuous feature was that this year there were no stories of presidents doing outrageous things. Instead, a large portion of the institutions had new presidents replacing less satisfactory previous presidents. These new presidents were also replacing their top administrative staff, and asking faculty governance bodies to become more involved in reviewing or writing academic policies. About a third of the governance organizations now seem to be engaged in policy writing and review.

On Saturday morning, the members discussed the general themes from the campus reports and agreed on two items for the next meeting. First, we would try to get a panel of presidents who were involving faculty in policy writing to discuss their views of shared governance. Second, with less enthusiasm, we would expand the use of the website as a policy repository that the member campuses could refer to. There was some discussion of trying to determine “best practices,” but in the end the consensus was that it would be better to collect accounts from campuses of their discussions of what their policy should be and why.

The meeting was exceptionally well attended and levels of satisfaction as reported in the evaluations seem to be increasing.

7. **Student Government Liaison Report – Karl Wolff and Molly Vaughan**

Nancy Fairbank was unable to attend but sent Karl Wolff and Molly Vaughan in her stead. March 24th was the most recent Student Government meeting. SG has a lengthy discussion regarding campus carry. The end result was that SG voted for a resolution in favor of campus opt-out. This is in support of the amendment from the House. To gauge student sentiment, surveys were sent out to students, and there was a broad range of opinions expressed. 700 students responded, which is high for this type of survey. Out of the 700, 83% said they do not own a firearm, 17% say they do. On the question of whether they agreed or disagreed with allowing concealed carry on campus, greater than 70% said they disagree or strongly disagree. On the question of whether public universities should be able to opt out of concealed handgun carry laws, 78% said yes. With this overwhelming response from students, SG passed a resolution in favor of allowing campus opt-out.

An ad hoc committee was formed for a drug and alcohol policy. They are continuing to meet with various bodies on campus. Other meetings continue on ‘Bring your own bottle’ and other related policies continue.

8. **CEP Proposals**

The Chair of the Committee, Suresh Radhakrishnan, presented the following committee report

A. **Status of 4 MATH Undergraduate Courses**

A meeting about four MATH courses was held back in February to allow for gathering more information. There was one core class, MATH 2306; and three
Mathematics major core courses, MATH 2370, 2399, and 3323. All are new courses. MATH 4930 was replaced by 2399. CEP moved to approve. The motion carried.

B. Mid-Cycle course additions- Undergraduate
Three new courses have been added; two from ATEC, and one from ECS. ATEC 4322 will be offered in spring 2016. ATEC 4356 will be offered in fall 2015. BMEN 3325 will be offered in fall 2015. CEP moved to approve. The motion carried.

C. Mid-Cycle course additions- Graduate
Seven new courses have been added; one from BBS, three from ECS, and three from JSOM. The BBS will offer COMD 6V09 in summer 2015. Out of the three ECS requested courses one course, SYSE 6V80, is a repeatable course. BMEN 6342 will be offered during spring 2016. In JSOM, two of three new courses will be added under the new courses prefix ENGY. This is for the new MS in Energy Management. The third course is for the Executive Education program. All other courses will be offered in the fall of 2015. CEP moved to approve. The motion carried.

D. Fast Track Policies and 2015 Undergraduate Catalog Sections
UT Dallas has a second monitoring report due to SACS on April 1, 2015. As part of the report the Fast Track language needs to be made clearer in the undergraduate catalogue. The CEP and CUE made changes and revision extensively across the document. The main changes were: Students must be university core complete before they apply to the fast track program. Both the undergraduate associate dean and the graduate advisor must be involved in the decisions. All other changes were to streamline the Fast Track language so as to be consistent across schools.

The document lists the fast track sections for each school. Each school program has a short description which will be in the catalog. It was streamlined and made consistent across schools. CEP moved to approve. The motion carried.

E. Informational: Core Curriculum and Transitional Core Curriculum Lists.
The list noted which courses are under each category of learning objectives. One course was reclassified, COMM 1311. There was no change to physical and life science or history. MUSI 2322 was reinstated as core in Creative Arts. MATH 4390 was removed and replaced with MATH 2399. GOVT 2301/2302 were removed from Government. SOC 2300 was reinstated and cross listed with GST 2300. The transitional core classes will continue through the summer of 2016. There were a few changes to the titles of the courses. All of the courses were approved before but this was simply a consolidation of information. The purpose of the list is to assist advisors.

9. Non-Substantive Changes to local UTS 180
The document was sent by Tim Shaw. It was reviewed by Murray Leaf and Tim Redman and appears acceptable. There are no differences that affect the faculty. The updates bring our local UTS 180 in line with UT System’s. Betsy Schlobohm move to approve changes. Tonia Wissinger seconded. The motion carried.
10. Amendment to UTDPP 1019- Committee on Committees
   The suggested updates were made to reflect the addition of the new school. R. Chandrasekaran and Matt Brown suggested for future amendment to committee charges that whenever possible the wording “one person from each school” be used so that in the future additional changes will not need to be made when additional schools are added to the university. Joe Izen moved to approve the amended document. Liz Salter seconded. The motion carried.

11. Adjournment
   There being no further business, Provost Wildenthal adjourned the meeting at 2:44 PM.

APPROVED: ___________________________  DATE: _____________
Tim Redman
Speaker of the Faculty
A Synopsis of Revisions

The Council of Undergraduate Education has approved the revisions made to the undergraduate catalog’s 1st 40 policies at their March 24, 2015 meeting.

The master report includes only those policies that have been revised for the upcoming 2015-16 undergraduate catalog. Therefore, not every policy will be included in this report.

About UT Dallas

- About UT Dallas: updated to reflect current statistics and academic year
- University Officers: revised to include the Honors College and the School of Arts, Technology and Emerging Communication
- University of Texas System Board of Regents: updated to reflect new Regents

Undergraduate Admission Policies

- A new section on undue influence, Application Inquiries, has been incorporated into the “About Undergraduate Admission” policy for transparency.
- Information within the application fees was updated.
- The International Student Admission and Readmission policies were updated.
- The High School Concurrent Enrollment policy within Special Admissions was updated and relocated to the “Other Policies” at the request of the Financial Aid and Registrar’s Offices.
- The Credit by Examination policy was updated.

The list of academic policies and procedures has been updated to reflect the revisions below.

Academic Policies
The language for transfer credit was also revised for clarity, to assist students in understanding how their credits could be applied toward their degrees.

Course Policies
- A new entry, course offerings, the type of courses offered by UT Dallas, was added to assist the UTD community in fielding questions about courses.
- The updated repeatable policy, as approved by CEP and Senate in October, has been added to the 1st 40 policies catalog copy.

Disciplinary Actions Associated with Academic Standing
- The academic warning requirements language was clarified for those students who will remain on “continued warning status” if they do not have a cumulative GPA of 2.000.

Graduate Courses (Fast Track)
- The updated Fast Track policy, as agreed at the CEP meeting on March 3, 2015, has been added to the catalog copy.

Graduation Requirements
- The graduation requirements were updated to include information about UNIV 1010 and UNIV 2020 as part of the core curriculum’s assessment rubrics.

International Education
- The study abroad eligibility criteria were reviewed and revised.
- The outlined procedures were relocated to the Resources for Study and Campus Life.

Registration
- The registration policy was rearranged in a logical manner, and it was approved by CUE in October 2014; it was shared as an informational item with CEP at that time.
- The registration language was revised to emphasize that students are not permitted to sit in classes without being officially enrolled or auditing the course.
Other Policies

- The High School Concurrent Enrollment policy was renamed to “Special Registration for High School Students’ in accordance with federal regulations; it was updated by the staff in the Financial Aid and the Registrar’s Offices.
- The Student Travel policy was updated.

Core Curriculum

The Core Curriculum has been updated with these changes pending Texas Higher Education Coordinating Board (THECB) approvals.

- MATH 2306, MUSI 2332, and SOC 2300 have been requested to be added to the core curriculum; ARHM 2344 has been requested to be added as a component area option (CAO).
- It was requested to reclassify COMM 1311 as both a communications core and a component area option.
- GOVT 2301 and GOVT 2302 have been removed. Additional information about taking GOVT 2301 and GOVT 2302 versus GOVT 2305 and GOVT 2306 has been removed.
- STAT 2332 will be renamed as Introductory Statistics for Life Sciences.
- The transitional core curriculum has also been updated to reflect the following changes.
- GEOS 4390, PA 3310, PSCI 3310, CE 1202, EE 1202, and TE 1202 have updated course titles.
- MATH 4390 and SOC 3306 will no longer be offered.

Honors College

- Requested to have their web catalog page (Collegium V) be relocated from the 1st 40 policies under the Curriculum policies, and be listed with the undergraduate degree programs.
  - Approved by CUE on March 24, 2015.

Other Policies and Resources (Bursar, Financial Aid, Registrar, Student Affairs, etc.)

- Each department, such as the Bursar, Financial Aid, Registrar, Student Affairs, among many others, had the opportunity to review their relevant changes.
• They include the following catalog web pages:
  • Tuition and Financial Aid
  • Excessive Hours (need to correct URL linkage)
  • Refunds
  • Other User Fees
  • Financial Aid and Types of Financial Aid
  • List of Resources for Study and Campus Life
  • Resources for Study and Campus Life
  • Appendix I: changed copyright contact to University Attorney contact
2015-2016 Undergraduate Catalog

About the Undergraduate Catalog

The University of Texas at Dallas Undergraduate Online Catalog is a general information publication only. The catalog intends to reflect current academic policies, procedures, degree offerings, course descriptions, and other information pertinent to undergraduate study at The University of Texas at Dallas. It is not intended to nor does it contain all regulations that relate to students. The provisions of this catalog do not constitute a contract, express or implied, between any applicant, student, or faculty member and The University of Texas at Dallas or The University of Texas System.

The University of Texas at Dallas reserves the right to change the provisions of this catalog at any time, including, but not limited to: withdraw courses at any time, to change fees or tuition, calendar, curriculum, course offerings, degree requirements, graduation procedures, and any other requirements affecting students as necessitated by legislative or regental action. Changes will become effective whenever the proper authorities so determine and will apply to both prospective students and those already enrolled.

The online version of The University of Texas at Dallas Undergraduate Catalog is the official version. The online catalog will be updated periodically and will contain all major policy changes that occur during the 2015-16 catalog cycle. The official publication date of this catalog is August 2015.

Although this catalog was prepared on the basis of the best information available at the time, and the information is updated regularly, users are cautioned about the following:

- Editorial, clerical, and programming errors may have occurred in the publication of this website, and The University of Texas at Dallas assumes no responsibility for such errors.
- There is a lag time between approved changes and their publication on this website.
- Students normally are entitled to graduate under the degree provisions of the catalog in effect at the time of their first completed semester of enrollment.

Students are held individually responsible for complying with all requirements of the rules and regulations of the university and the Board of Regents of The University of Texas System. Failure to read and comply with policies, regulations, and procedures will not exempt a student from whatever penalties the student may incur.

Sections within the Catalog

The catalog is arranged into sections as they appear in the catalog. Within each section, the topics are arranged alphabetically. The sections are titled:

- Faculty Roster
- Academics (Degree Programs)
- Admission
Accreditation

The University of Texas at Dallas is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award baccalaureate, masters, and doctoral degrees. Contact SACSCOC at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call (404) 679-4500 for questions about the accreditation of The University of Texas at Dallas.

Equal Educational Opportunity Statement

The University of Texas at Dallas is committed to providing an educational, living and working environment that is welcoming, respectful and inclusive of all members of the university community. An environment that is free of discrimination and harassment allows members of the university community to excel in their academic and professional careers. To that end, to the extent provided by applicable federal and state law, the University prohibits unlawful discrimination against a person because of their race, color, religion, sex (including pregnancy), national origin, age, disability, genetic information, or veteran status. The University's commitment to equal opportunity extends its nondiscrimination protections to include sexual orientation, gender expression and gender identity.

Catalog Publish Date: August 2015
About UT Dallas

Historical Sketch

Prior to World War II, Eugene McDermott, Cecil Green, and Erik Jonsson, the founders of Geophysical Services, Inc., were in the business of searching for natural resources. The war changed the focus of the company from searching for natural resources to creating instruments that aided in finding enemy planes and submarines. GSI spawned Texas Instruments and in 1958, TI employee Jack Kilby invented the integrated circuit that launched a new era for the company, for North Texas, and for the world.

During the expansion of Texas Instruments, the founders were forced to import engineering talent from outside the state, while the region's bright young adults pursued education elsewhere. McDermott, Green, and Jonsson saw that Texas needed highly educated minds if the state were to remain competitive in the decades to come. They noted that in 1959 alone, Columbia University conferred 560 doctoral degrees - more than the entire Southwest region. They wrote at the time, "To grow industrially, the region must grow academically; it must provide the intellectual atmosphere, which will allow it to compete in the new industries dependent on highly trained and creative minds."

Therefore, they established the Graduate Research Center of the Southwest (later renamed the Southwest Center for Advanced Studies - SCAS) in 1961. The center recruited some of the best scientific talent in the nation. The Texas legislature concurred with the vision of the Founders and mandated in 1967 that science and technology educational opportunities needed to exist in North Texas. McDermott, Green, and Jonsson decided to donate SCAS and its lands to The University of Texas System, and on June 13, 1969, Governor Preston Smith signed the bill creating The University of Texas at Dallas. The SCAS scientists formed the core of UT Dallas' educational infrastructure.

By terms of its enabling legislation, UT Dallas offered only graduate degrees until 1975 when the addition of juniors and seniors increased enrollment from 408 in 1974 to more than 3,300 students. By the fall of 1977, the enrollment reached over 5,300. In 1986, UT Dallas established the Erik Jonsson School of Engineering and Computer Science. Today the Jonsson School plays a critical role in providing a highly educated work force for the advanced technology industry.

The Rise to National Prominence

In 1990, the Texas legislature authorized UT Dallas to admit lower division students. UT Dallas' first freshman class consisted of only 100 students. Despite its small size, this cohort's achievements set the standard for future classes. Since then, freshman classes have grown in size while the university has maintained high enrollment standards. Nationally published data indicate that UT Dallas' freshman class compares extremely well with those from many prominent national universities. UT Dallas consistently has three-fourths of its entering freshmen in the top twenty-five percent of their graduating class with many coming from the state's most competitive high schools.

The university's ability to attract and retain these students has propelled The University of Texas at Dallas into national prominence within a few short years. US News and World Report ranks UT Dallas as one of the three best public universities in the state along with UT Austin and Texas A&M. M. Kiplinger's Personal Finance
Journal, in its February 2015 article "Top 100 Best Values in Public Colleges, 2015," ranked UT Dallas 34th among all public universities nationally, gaining 21 spots from 60th last year. The quality of the students who attend UT Dallas has remained consistently high. Thirty-eight percent of the incoming freshmen are in the top 10% of their high school graduating class and their average SAT scores place them in the top twenty percent of all college-bound students. In recent years, UT Dallas has ranked among the top 100 American universities in terms of the number of National Merit Scholars enrolled.

The addition of freshmen has accelerated the rise in the percentage of full-time undergraduates from 31% in 1986 to 81% in 2014. Masters, doctoral and post-baccalaureate students currently comprise 38% of the student body. Given its location and mission, UT Dallas will continue to have significant numbers of professionals attending undergraduate or master’s courses part-time.

The transition of the university from a part-time upper division school to a four-year university with an emphasis on engineering, mathematics, the sciences and the management of new technologies has been greatly facilitated by the university’s faculty. By retaining key faculty members and attracting more nationally and internationally prominent researchers and instructors, UT Dallas has enabled its faculty to provide quality instruction to an increasingly diverse student population while sustaining the university's longstanding research tradition. During this same period, the university expanded its teaching mission, enhanced its areas of focused excellence and became independently recognized as one of the top public universities in the nation.

**Mission**

The University of Texas at Dallas provides the State of Texas and the nation with excellent, innovative education and research. The university is committed to graduating well-rounded citizens whose education has prepared them for rewarding lives and productive careers in a constantly changing world; to continually improving educational and research programs in the arts and sciences, engineering, and management; and to assisting the commercialization of intellectual capital generated by students, staff, and faculty.

**Organization**

The University of Texas at Dallas is one of nine universities and six health institutions governed by The University of Texas System’s nine regents, who are nominated by the governor, selected from different areas of the state, and appointed with the advice and consent of the Texas Senate.

UT Dallas consists of seven schools, each headed by a dean: School of Arts and Humanities, School of Behavioral and Brain Sciences, Erik Jonsson School of Engineering and Computer Science, School of Economic, Political and Policy Sciences, School of Interdisciplinary Studies, Naveen Jindal School of Management, and School of Natural Sciences and Mathematics. The schools, in turn, consist of teaching and research programs that provide the disciplinary foundations of the university. In addition to the usual disciplinary approaches, the university has a strong commitment to interdisciplinary study at both the graduate and undergraduate levels. Most faculty members teach in both graduate and undergraduate areas so that the character of their instruction is informed by critical examination of the most recent developments in their fields.

Each of the university's schools contains an undergraduate college, headed by an Associate Dean of Undergraduate Education (ADU) who coordinates the undergraduate programs and academic advising within
the college. These colleges of The University of Texas at Dallas provide undergraduate students with a personalized setting in which they may pursue their academic careers. Each college offers an intellectual and social home for undergraduates within the larger university.

The Office of Undergraduate Education coordinates undergraduate education across the seven schools. The Council for Undergraduate Education (CUE), chaired by the Dean of Undergraduate Education, oversees academic advising and degree requirements, and develops and implements educational policy.
University Officers

President's Cabinet

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Executive Vice President and Provost
B. Hobson Wildenthal, PhD

Vice President and Chief Information Officer
Andrew Blanchard, PhD

Vice President of Diversity and Community Engagement
George Fair, PhD

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University Registrar
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Dean
Dennis M. Kratz, PhD
Associate Dean of Graduate Studies
Michael L. Wilson, PhD

Associate Dean of Undergraduate Studies
Shelley D. Lane, PhD

School of Arts, Technology and Emerging Communication

Dean

Associate Dean of Graduate Studies

Associate Dean of Undergraduate Studies

School of Behavioral and Brain Sciences

Dean

Bert S. Moore, PhD

Associate Dean, Graduate Studies

Robert D. Stillman, PhD

Associate Dean, Undergraduate Studies

Melanie J. Spence, PhD

School of Economic, Political and Policy Sciences

Dean

Denis J. Dean, PhD

Associate Dean for Graduate Education

Alex Piquero, PhD

Associate Dean of Undergraduate Studies

Euel W. Elliott, PhD
Erik Jonsson School of Engineering and Computer Science

Dean
Mark W. Spong, PhD

Associate Dean of Academic Affairs
Poras T. Balsara, PhD

Associate Dean for Undergraduate Education
Simeon Ntafos, PhD

School of Interdisciplinary Studies

Dean
George W. Fair, PhD

Associate Dean for Undergraduate Studies
Dachang Cong, PhD

Naveen Jindal School of Management

Dean
Hasan Pirkul, PhD

Senior Associate Dean
Varghese S. Jacob, PhD

Associate Dean, Executive Education
Gerald (Jerry) Hoag, MBA

Associate Dean, Graduate Programs
Monica Powell, PhD

Associate Dean, Undergraduate Programs
Marilyn Kaplan, PhD

Associate Dean, Undergraduate Programs
Matt Polite, JD
Assistant Dean, Undergraduate Studies
Thomas (Tom) Henderson, MS

School of Natural Sciences and Mathematics

Dean
Bruce M. Novak, PhD

Associate Dean for Graduate Studies
Juan E. González, PhD

Associate Dean for Undergraduate Studies
Dennis L. Miller, PhD
The University of Texas System Board of Regents

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Paul L. Foster, Chairman
Dick Steven Hicks, Vice Chairman
Francie A. Frederick, General Counsel

Members

Terms Scheduled to Expire February 1, 2017¹
- Regent Alex M. Cranberg
- Regent Wallace L. Hall, Jr.
- Regent Brenda Pejovich

Terms Scheduled to Expire February 1, 2019¹
- Chairman Paul L. Foster
- Regent Ernest Aliseda
- Regent Jeffery D. Hildebrand

Terms Scheduled to Expire February 1, 2021¹
- Vice Chairman Dick Steven Hicks
- Regent David J. Beck
- Regent Sara A. Tucker

¹. The actual expiration date of the term depends on the date the successor is appointed, qualified, and takes the oath of office.

Comment [MJ1]: As shown on UT Systems Regents web page: http://www.utsystem.edu/board-of-regents/current-regents
Undergraduate Admission

About Undergraduate Admission

The University of Texas at Dallas is a comprehensive, state supported institution of higher learning, offering a variety of programs at the undergraduate, masters, and doctoral levels. UT Dallas is committed to providing quality education to a diverse student body and offers programs designed for both full-time and part-time students. The University of Texas at Dallas accepts applications for admission from freshmen and transfer students at all levels for the fall, spring and summer semesters.

The Office of Admission and Enrollment Services is the gateway to the university for prospective undergraduate students. Professional admission counselors provide information regarding the college selection process through mailings, school visits, college fairs, campus tours, the Internet (www.utdallas.edu/enroll), and a variety of other special events. Campus tours are provided weekdays at 10:00 a.m. and 2:00 p.m. In addition, The Office of Admission and Enrollment Services provides pre-admission counseling sessions for both freshmen and transfer students regarding eligibility for admission and transferability of coursework. Admission to UT Dallas is open to all candidates on the basis of academic preparation, ability, and availability of space without regard to race, color, religion, national origin, gender, age, disability, citizenship, veteran status, or sexual orientation.

Application Inquiries

Inquiries regarding the status or details of an application will only be discussed with the applicant or a representative designated by the applicant, such as his or her parent or legal guardian, spouse, or secondary high school counselor. Disclosure of any material in an applicant’s file to a third party is prohibited. For additional information, see. [hyperlink to policy navigator with policy number].

Questions related to undergraduate admissions should be addressed to:

Office of Admission and Enrollment Services
The University of Texas at Dallas
800 West Campbell Road
Richardson, Texas 75080-3021
Telephone: 972-883-2270
Toll Free Telephone: 800-889-2443
Fax: 972-883-2599
Email: admissions-status@utdallas.edu

The Office of Admission and Enrollment Services is located in the Student Services Building.

As with all state institutions of higher education, the procedures and criteria for admission used by UT Dallas are effective as of the publication date of this catalog but are subject to change by actions of the Texas Legislature or the Board of Regents.

Applying for Admission

To apply to UT Dallas, all students should submit an application for admission, which is available through
Apply Texas. Applicants are required to submit official copies of all past academic transcripts, test scores, and other degree specific documentation by the appropriate application deadlines to be considered for admission to The University of Texas at Dallas.

Official transcripts in envelopes sealed by the issuing institution may be delivered to the Office of Admission and Enrollment Services, or may be mailed directly from the educational institution. Official transcripts may also be sent electronically or emailed to interest@utdallas.edu. If your documents are issued in your country’s official language, you must submit an English translation of your academic documents. The translations must be from either the academic institution or from a certified translation company. All materials submitted towards an application file become the property of the university and will not be returned to the applicant.

Supplemental documents, such as the optional essay or letters of recommendation, may be sent to the Office of Admission and Enrollment services by mail. Applicants are limited to three letters of recommendation per application and must provide the official application cover letter to their selected recommenders to be included with the letter of recommendation for it to be considered.

Applying for 2016 Admission

Pending information from Office of Admission and Enrollment Services.
Undergraduate Admission

Application Fees and Deadlines

All fees are non-refundable.

• The application fee is $50 if your application is submitted on or before the regular application deadline.

• If you submit your application after the application deadline but prior to the completed application deadline (application and all required documents) the application fee is $125 in order to process your application for decision in time to register for classes.

• Applicants with international academic documents will be assessed an additional foreign credential evaluation fee of $50.

• All supporting documents and transcripts, with the exception of courses in progress, must be received by the Office of Admission and Enrollment by the completed application deadline (see Deadlines for U.S. Citizens and Residents chart below).

• A new application must be completed and submitted for consideration for any subsequent semester for all incomplete applications after the documentation deadline.

### Deadlines for U.S. Citizens and Residents

<table>
<thead>
<tr>
<th>Term</th>
<th>Regular Application Deadline</th>
<th>Late Application and Documentation Deadline (Complete Admissions Application File Due)</th>
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<tbody>
<tr>
<td>Fall Full-Term</td>
<td>July 1</td>
<td>August 1</td>
</tr>
<tr>
<td>Spring Full-Term</td>
<td>November 1</td>
<td>December 1</td>
</tr>
<tr>
<td>Summer Sessions</td>
<td>April 1</td>
<td>May 1</td>
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International Student Application Fees and Deadlines

All fees are non-refundable.

• The application fee is $50 if your application is submitted on or before the regular application deadline.

• If you submit your application after the deadline but prior to the completed application deadline, the application fee is $125 in order to process your application in time to register for classes.

• Applicants with international academic documents will be assessed an additional foreign credential evaluation fee of $50.
• All supporting documents and transcripts, with the exception of courses in progress, must be received in the Office of Admissions and Enrollment by the completed application deadline (see chart below).

• A new application must be completed and submitted for consideration for any subsequent semester for all incomplete applications after the documentation deadline.

### Deadlines for International Applicants

<table>
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<tr>
<th>Term</th>
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<tbody>
<tr>
<td>Fall Full-Term</td>
<td>May 1*</td>
<td>June 1*</td>
</tr>
<tr>
<td>Spring Full-Term</td>
<td>September 1*</td>
<td>October 1*</td>
</tr>
<tr>
<td>Summer Sessions</td>
<td>March 1*</td>
<td>April 1*</td>
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Note: International Students requesting an I-20 (F1) or a DS-2019 (J1) are not eligible to begin their study at UT Dallas during a 2nd 8-week session.

Contact the International Student Services Office at 972-883-4189 for more information.

*International applicants with visa types other than F1 or J1 visas may adhere to the domestic application deadlines and dates, but still will be assessed late fees according to the international deadline dates.

UT Dallas encourages all students to submit their application as early as possible, as it can take from 4 to 6 weeks to process a completed application. Applications submitted after the application deadline and before the completed application deadline (application and all required documents) deadline will still be processed; however, a decision may not be reached in time for students to avoid late registration.

After receiving an application acknowledgement email which includes a student ID number with instructions on how to obtain a NetID and login to Galaxy, students may check their status in Galaxy, to determine the status of their application and whether all required documents have been received.

### Application Fee Waivers

Applicants to the UT Dallas are waived from the application and late fee if they meet one of the following scenarios:

- Applicant is a graduate from UT Dallas
- Applicant is a continuously enrolled student at UT Dallas
- Applicant was enrolled within the last three long semesters

For more information about applications fees and deadlines go to [http://www.utdallas.edu/enroll/apply/fees.php](http://www.utdallas.edu/enroll/apply/fees.php). For questions related to application fees contact the Office of Admission and Enrollment at admission-fee@utdallas.edu or 972-883-2270.
Undergraduate Admission

First-Time Freshman Admissions

A first-time freshman is an applicant to UT Dallas, who has not enrolled in another institution of higher education after their high school graduation, excluding summer. For the purposes of admission and scholarship consideration, applicants will be evaluated as first-time freshmen if the students' first matriculation at a college or university during a long semester after graduating from high school will occur at UT Dallas. Applicants are still considered as first-time freshmen if they earn college credit before high school graduation. If an applicant has earned college credit during a long semester after high school graduation, he or she is not considered a first-time freshman and should consult admission requirements for a transfer student (see Transfer Admission Criteria: catalog.utdallas.edu/2015/undergraduate/admission/transfer-student-admissions#criteria).

The university's policy is to admit applicants who are most able to benefit from and contribute to the university's academic and research mission. The high academic expectations and complex educational curricula at UT Dallas require that first-time freshmen have successfully completed a full college-track high school curriculum and have demonstrated strong general verbal and quantitative aptitudes as measured on national standardized tests.

2016 Admission

Pending information from Office of Admission and Enrollment Services

Automatic Admission

In accordance with Chapter 51 of the Texas Education Code, students are automatically admitted to the university as first-time freshmen if they graduate in the top 10% of their class from an accredited Texas high school and successfully complete the recommended or Distinguished Program or earn a Distinguished level of Achievement. Applicants must have graduated from high school during one of the two school years preceding the academic year for which they seek admission as first-time freshmen and have not attempted any higher education credits since graduation from high school. Applicants admitted because they are in the top 10% of their high school class may be required to complete additional preparatory work before enrolling in the university or complete developmental coursework to remove any deficiencies in their readiness to successfully complete college-level work prior to university graduation.

Admission Criteria

Assured Admission Criteria

Most freshman applicants who are admitted to the university have met the following admission criteria:

- Graduate in good standing from an accredited high school
- Complete the full Texas recommended college-track high school curriculum
Have academic records meeting one of the following:

- A SAT score of 1200 (combined math and critical reading) or higher
- A composite ACT score of 26 or greater

First-time freshmen should have successfully completed a full, college-track high school curriculum, including English language arts (4 credits), mathematics (4 credits, including credit in Algebra II), science (4 credits), social sciences (3 credits), foreign language (2 credits in a single language other than English), fine arts (1 credit in music, art, or drama), and completion of at least one endorsement.

Students from private schools and those outside the State of Texas will be considered for admission based on the same academic benchmarks listed above and a comparable high school curriculum.

Children of Public Servants Killed or Fatally Injured in the Line of Duty

Children of public servants designated by statute are assured freshman admission if they meet the minimum requirements for high school or prior college-level grade point average and standardized test scores. This policy is in accordance with Section 51.803 of the Texas Education Code.

Reviewed Admission

All applications that do not meet the Assured Admission Criteria will be reviewed. Applicants must have graduated from an accredited high school or satisfied the equivalent requirements, and should have completed the high school credit requirements listed below (see item 9). Admission decisions are based on the applicant’s composite achievement profile, including:

1. High school class rank
2. Strength of academic preparation including the number and complexity of courses taken (Honors, AP, IB, etc.)
3. SAT-I or ACT scores
4. Record of achievements, honors, and awards
5. Special accomplishments, work, and community service, both in and out of school
6. Essays
7. Special circumstances that put academic achievements in context
8. Recommendations (suggested, but not required, and limited to up to three submitted through the application process)
9. Successful completion of a high school curriculum that includes:
   - Four credits of English Language Arts, including at least one credit of writing skills
   - Two credits of a single language other than English (three credits recommended)
Four credits of Mathematics, including Algebra II and including a course dealing with trigonometry, such as pre-calculus.

Four credits of Science.

Three credits of Social Sciences, not including work-study (four credits recommended).

One credit of Fine Arts.

In addition to current university requirements for admission, applicants must also have either:

- successfully completed the curriculum requirements for the recommended or Distinguished Program or earn a Distinguished level of Achievement or its equivalent, or
- Satisfied ACT’s College Readiness Benchmark assessment or College Board’s SAT Benchmark assessment.

The above requirement may be satisfied if the applicant’s official high school transcript or diploma states that the applicant completed the portion of the recommended or advanced curriculum or its equivalent that was available to the applicant, but was unable to complete the remainder of the curriculum solely because courses necessary to complete the remainder were unavailable to the applicant at the appropriate times in the applicant's high school career as a result of course scheduling, lack of enrollment capacity, or another cause not within the applicant's control.
Undergraduate Admission

International Student Admissions (Students on Nonimmigrant Visas)

In addition to satisfying admissions criteria outlined in the catalog, international applicants from non-English-speaking countries must demonstrate English proficiency. English proficiency requirements can be met by:

- Achieving a minimum score of 550 on the TOEFL IBT (paper-based test),
- A minimum score of 80 on the TOEFL IBT (Internet-based test),
- A minimum score of 6.5 on the International English Language Testing System (IELTS) test,
- A minimum score of 67 on the Pearson's Test of English Academic (PTE), or
- A passing grade in level 112 of English from the ELS Language Centers.

Students must have taken the test within two years of the date of admission. Admitted international students must meet the requirements of the Texas Higher Education Assessment prior to enrolling in classes (see Texas Success Initiative).

Deadlines

International applicants are strongly urged to meet all published deadlines and submit the application and supporting materials at least six months ahead of the intended date of enrollment. Applicants providing foreign credentials/documents should send all materials to the following address:

Office of Admission and Enrollment Services
The University of Texas at Dallas
800 West Campbell Road
Richardson, TX 75080-3021

Telephone: 972-883-2270
Toll-Free Telephone: 800-889-2443
Fax: 972-883-6803
Email: admissions-status@utdallas.edu

English Translations

If your documents are issued in your country’s official language, you will need to submit a certified English translation along with your documents in the original language. Translations must be from a certified translation company, the college/university or from the authorized governmental agency.

Fees

Certified English translations are required for documents prepared in a language other than English. There is an additional foreign credential evaluation fee for any student who has been educated outside of the United States. Students with foreign academic credentials to review will be assessed an additional foreign credential.
These processing fees are required of all international students with academic credentials outside the US applying for admission to The University of Texas at Dallas.

Financial Responsibility

International students who plan to study with an F or J visa status must also provide evidence of financial support in order to obtain an I-20 or IAP-66 document.

Student Health Insurance and Documentation

International students are required to maintain approved comprehensive health insurance while enrolled at The University of Texas at Dallas. At registration, international students will be assessed a fee for the purchase of the UT System Student Health Insurance Plan. If there is evidence of continuing coverage under the UT System Employee Health Plan, a comparable mandatory employee plan, continuing mandatory coverage through a government sponsored health plan, or continuing coverage that satisfies the requirements of USIA regulations with regard to J1 and J2 visa holders, the student can request that the health insurance charge be waived. See the UT Dallas Student Health Insurance website for more detailed information.

TB Screening Required for International Students

- International students are required to have an Interferon Gamma Release Assay (IGRA) blood test (T-Spot) and a bacterial meningitis vaccination prior to registration. Screening for TB must be administered, regardless of prior BCG vaccination, no more than (6) months prior to the first day of class.
- The only acceptable TB screening option is the Interferon Gamma Release Assay (IGRA) blood test (T-Spot). The mantoux tuberculin skin test is not acceptable.
- The T-Spot test must be administered and interpreted in the United States by a licensed medical provider.
- International students who do not complete a TB screening or who do not submit the appropriate documentation will NOT be allowed to register for classes.
- Appropriate documentation secured from a U.S. licensed medical provider may be sent to the following address:

  Student Health Center, SSB 43
  The University of Texas at Dallas
  800 West Campbell Road
  Richardson, TX 75080-3021

  See the UT Dallas Student Health Center for more information.

Bacterial Meningitis Vaccine

Beginning January 1, 2012, state law requires that all entering Texas college students, who are under the age of 22, must receive a vaccination or booster (if the vaccination is five years old) against bacterial meningitis before enrollment.
Mail proof of bacterial meningitis vaccination and form to the following address:

Office of the Registrar, SSB 13
The University of Texas at Dallas
800 West Campbell Road
Richardson, TX 75080-3021

OR email bacterial meningitis vaccination documentation to the Office of the Registrar.

See the UT Dallas website for more information. International students will not be permitted to register until these requirements are met.

**Orientation and Registration**

In addition to the requirements listed above, UT Dallas holds a mandatory orientation session for new F and J visa status international students. Students will not be allowed to register without a permit showing that they have attended orientation.
Undergraduate Admission

Readmission of Former UT Dallas Students

Students who were previously enrolled at The University of Texas at Dallas, may return to the University by following the re-entry process through the Office of the Registrar, if they meet the following criteria:

- Have not registered for three successive semesters (not including summer semesters) at UT Dallas;
- Left in good standing from The University of Texas at UT Dallas;
- Left in good standing from all other former institutions attended; and
- Previously were undergraduate, degree-seeking students and now return as undergraduate, degree-seeking students in the same degree program; or
- Previously were undergraduate, non-degree seeking students and now return as undergraduate, non-degree seeking students.

If the student qualifies under the readmission policy, the student must submit a re-entry form and return it to the Office of the Registrar 10 days before the first day of class. Students may access the re-entry form by going to http://www.utdallas.edu/registrar/files/Re-entryForm_001.pdf. If there are questions regarding the re-entry process, contact the Registrar’s Office, 972-883-2342 or by email, records@utdallas.edu.

Upon re-entry, students must meet the requirements of the catalog in effect for the term of re-entry and, if accepted, will be bound by all conditions of that current catalog. Re-admitted students are subject to the requirements set forth by legislative or regental action, and changes become effective on the date of enactment. Upon re-entry, the student’s tuition residency status will be re-determined in accordance with Texas law.

Former students who have graduated from UT Dallas with a conferred degree will need to re-apply and submit an application for admission, which is available through Apply Texas.

Students who have attended another college or university since they last enrolled at UT Dallas must submit official transcripts of all such work to the following address:

The Office of the Registrar
The University of Texas at Dallas
800 West Campbell Road
Richardson, TX 75080-3021
Telephone: 972-883-2270
Toll Free Telephone: 800-889-2443
Fax: 972-883-6803
Email: interest@utdallas.edu

See Academic Suspension in the Academic Policies and Procedures section for more information regarding students returning to the University following academic suspension (catalog.utdallas.edu/2015/undergraduate/policies/disciplinary-actions/suspension).
Undergraduate Admission

Special Admissions

Academic Fresh Start

An applicant for admission who is a Texas resident may seek to enter this institution pursuant to the academic fresh start statute, *Texas Education Code*, Section 51.931. An applicant must make this request in writing to the Office of Admission and Enrollment Services before the student is admitted. After the applicant submits this request, UT Dallas will not consider in its admissions decision any academic course credits or grades earned by the applicant 10 or more years before the starting date of the semester in which the applicant seeks to enroll. In addition, an applicant admitted under Academic Fresh Start will not receive any course credit for courses taken 10 or more years before enrollment. The granting of Academic Fresh Start will neither affect TSI (Texas Success Initiative) status nor remove the applicant's responsibility to meet other conditions for admission.

High School Concurrent Enrollment

The Dean of Undergraduate Education will consider the co-enrollment of highly qualified high school students in specific UT Dallas mathematics courses only on an individual basis. Permission for enrollment in particular mathematics courses will be granted at the discretion of the Dean of Undergraduate Education.

Co-enrollment decisions will be based on the academic credentials of the applicant, including the applicant's completion of all calculus courses at the student's local community college, the scholastic rigor of the requested classes, the course prerequisites, and the demand for the class on the part of ongoing UT Dallas students. Only the Dean of Undergraduate Education may admit a co-enrolled student to the university.

To request co-enrollment, a prospective student must complete an application for admission and submit a copy of his/her high school transcript, community college transcript, and all standardized test results. In addition, a letter must accompany the application from the student's high school counselor endorsing the student's enrollment in a particular course. The counselor must also assure the university that the requested course(s) represent instruction unavailable and/or advanced beyond
that offered at the student's high school and the local community college.

High school students will not be considered for co-enrollment until they pass all sections of the TSI (Texas Success Initiative) Assessment, or meet one of the following criteria which exempt them from the TSI Assessment requirements:

1. Earn a composite score of 23 or higher on the ACT, with individual math, reading and English scores of no less than 19.
2. Earn a composite score of 1070 or higher on the SAT, with 500 critical reading (formally verbal) and 500 math.

Non-Degree Seeking Students

Students who hold an undergraduate degree or higher and wish to take undergraduate courses for credit without seeking a degree may enroll as a non-degree seeking student. Up to 15 semester credit hours of such course credit may be transferred to any degree program at the university; acceptance of any of these semester credit hours is at the discretion of the Undergraduate Associate Dean of the School into which the student wishes to be accepted.

To continue enrollment beyond one semester, non-degree students will be bound by the same scholastic standards that apply to regularly enrolled degree-seeking students.

A non-degree seeking student whose work is unsatisfactory and who has been suspended from the university for academic reasons may not re-enroll without permission of the Dean of Undergraduate Education.

Non-degree seeking students may not be eligible for financial aid. It is recommended that applicants contact the UT Dallas Financial Aid Office for more information at 972-883-2941.

Note: International students may not enroll as non-degree seeking students; exceptions may be made for the summer session for those international students enrolled in a degree program elsewhere.

Second Baccalaureate Degrees

Before applying, students seeking a second baccalaureate degree should contact the department to which they are applying for more information. Upon acknowledgement from the school, students who earned an undergraduate degree at UT Dallas or another institution of higher education should apply for admission through Apply Texas, submit official transcripts from all non-UT Dallas college coursework, pay the non-refundable application fee(s), and submit an essay to be reviewed for admission by the
Transient Students

Students who are currently enrolled and degree seeking at four-year colleges and universities other than UT Dallas and who desire to transfer semester credit hours taken at UT Dallas to the degree granting institution should apply for admission as transient students. Students will be admitted based on evidence of good academic standing at their home institution. In addition, students who have previously attended Texas state-supported institutions must provide evidence of their current TSI status.

Transient admissions are valid for a single semester. While UT Dallas credits are generally transferable to other institutions, the student is urged to seek prior approval of coursework to be completed at UT Dallas from the institution to which it is to be transferred.

Note: Transient applicants who wish to pursue coursework after the first term should reapply as a transfer degree seeking student.
Undergraduate Admission

Transfer Student Admissions

Applicants to UT Dallas who have previously completed college level coursework beyond high school graduation (excluding the summer following graduation) at an accredited institution will be reviewed for admission as a transfer student.

The University of Texas at Dallas accepts applications for admission from transfer students for the fall, spring, and summer semesters. UT Dallas welcomes applications from students who have begun their college work and are in good standing at other institutions of higher education.

2016 Admission

Automatic Admission for Eligible Transfer Students

Section 51.8035 of the Texas Education Code establishes criteria for automatic admission to The University of Texas at Dallas for eligible transfer students who began their studies at a Texas institution of higher education following high school graduation.

To be eligible for automatic transfer admission under section 51.8035, a prospective transfer student must have:

1. Qualified for automatic admission to a Texas institution of higher education at the time he or she graduated from high school, or was previously offered admission under this provision.

2. First enrolled in a public junior college or other public or private lower-division institution of higher education not earlier than the third academic year before the academic year for which he or she is seeking admission to the University.

3. Completed the core curriculum at a public junior college or other public or private lower-division institution of higher education with a cumulative grade point average (GPA) of at least 2.500 on a 4.000 point scale, or the equivalent.

4. Submitted a complete application for transfer admission by the deadline.

To take advantage of the automatic admission option, the applicant must submit to UT Dallas, by the deadline, information that "expressly and clearly" claims entitlement to admission under this provision.

The university may accept transfer credit only for academic post-secondary coursework completed with a grade of C (2.000 on a 4.000 point scale) or higher. The University of Texas at Dallas does not offer credit for nonacademic coursework such as vocational, developmental or remedial studies, nor does it grant credit for prior experiential learning. Coursework that is accepted for transfer credit is applicable toward satisfying requirements for a specific UT Dallas major according to the same criteria as those used for equivalent UT Dallas courses. Information about resolution of transfer disputes involving lower-division courses can be found in Appendix II.

Prospective transfer students from Dallas area community colleges should refer to the UT Dallas Transfer
Guides, available at the UT Dallas Office of Admission and Enrollment online at http://www.utdallas.edu/enroll/apply/texas.php, and at the community college academic advising offices to learn more about curricula appropriate to the various UT Dallas majors.

As soon as an application for admission, transcripts and any required test scores have been received, the office of the registrar will evaluate the student's record to determine which credits earned at another domestic college or university will transfer to UT Dallas. The Office of Admission and Enrollment will evaluate the student's record to determine which credits earned at another international college or university will transfer to UT Dallas.

The application of transfer credit to degree plans must be completed within the first semester of enrollment. An undergraduate advisor in the student's major, in consultation with the Associate Dean for Undergraduate Education, will determine how the transfer credits apply towards UT Dallas degree requirements. The faculty, acting through the Associate Dean of Undergraduate Education, has the ultimate responsibility for applying transfer credit to their specific major requirements. Students are urged to contact their advising office upon receipt of the letter informing them of their admission to UT Dallas.

Transfer students who begin their semester with 45 or more semester credit hours are required to file a degree plan with UT Dallas no later than the end of the student's regular semester in accordance with Texas Education Code, Section 51.9685, subsection C.

Applicants seeking admission to UT Dallas should be aware that they will need at least 51 upper-division semester credit hours to graduate (see Graduation requirements located at http://catalog.utdallas.edu/2015/undergraduate/policies/graduation_graduation-requirements).

Transfer Admission Criteria

Transfer applicants must submit transcripts from all college/universities attended for admission review. Transfer applicants with a freshman classification (see Classification of Students) may be required to submit official high school transcripts and SAT/ACT scores as well as all college level coursework. Transfer applicants, with a higher classification, will be reviewed on their cumulative transfer GPA of post-secondary academic coursework and a review of specific college courses only. Additionally, they are subject to compliance to the Texas Success Initiative (TSI) at catalog.utdallas.edu/2015/undergraduate/policies/admission-policies_tsi.

Assured Transfer Admission

Applicants with 42 or more transferable semester credit hours must meet the following admission criteria:

- Have a minimum cumulative transferable GPA of 2.700 on a 4.000 point scale
- Be in good standing from the last college or university attended
- Have fewer than 90 attempted semester credit hours at a Texas public institution of higher education

Reviewed Transfer Admission

Transfer applicants who do not meet the assured transfer admission criteria will be reviewed and may be placed on probation.
Applicants are required to submit all post-secondary academic course work and be in good standing at the last college or university attended. Additionally, applicants may be required to submit the following documents:

- High school transcript
- SAT/ACT scores
- Essay explaining their educational history

**Transfer Students Admitted on Probation**

If admitted on probation, transfer students must:

- See an academic advisor before registering
- May not register for more than 15 semester credit hours
- May not drop from any classes
- Must earn a grade of 'C' or better in classes, and
- Follow other conditions as prescribed by the admitting Associate Dean

Students admitted on probation must earn a GPA of at least 2.200 for the first semester of enrollment. Failure to meet these conditions will result in suspension. Students admitted on probation who are subsequently suspended from the University may be readmitted only by the Associate Dean (see ‘Academic Suspension’ at catalog.utdallas.edu/undergraduate/policies/disciplinary-actions#readmission).

**The Comet Connection Program**

Many UT Dallas students transfer from a Texas two-year community college. The Comet Connection Program was specifically created to enable community college transfer students from Texas community colleges to blend their college experiences seamlessly - and without financial penalty. Members of the Comet Connection Program are also offered a Guaranteed Tuition Program and may defer admission up to 12 months after admission. For more information or to receive an updated list of participating community colleges, contact one of our admissions counselors at the Welcome Center at 972-883-2270 or visit www.utdallas.edu/connect.

**Comet Connection members**

Must satisfy Assured Transfer Admission criteria for transfer students or the following criteria:

- Associate's Degree (AA/AS/AAT)
- A GPA of 2.500 on a 4.000 point scale
- In good standing from the last college or university attended

Updated: September 29, 2014 - Visitor: 1449
Undergraduate Policies and Procedures

Credit by Examination (AP-CLEP-IB)

Examination credit is evaluated only at the student's request. Students wishing to receive examination credit must first meet with an academic advisor to complete a request form that is then submitted to the Office of the Registrar.

Documentation of any lower-division credit established by examination through such programs as the AP (Advanced Placement Program), the College Level Examination Program (CLEP), and the International Baccalaureate (IB) must be submitted directly from the testing agency. UT Dallas will accept AP scores printed on the official high school transcript, but only if the AP scores appear on the transcript in the official College Board format. Test scores must be submitted directly from the testing agency or at the UT Dallas Admission and Enrollment Services website (www.utdallas.edu/enroll/apply/exam.php).

No exams ten years and older will be considered for credit. Test scores must be submitted directly from the testing agency. UT Dallas will provide college credit to those who present an International Baccalaureate Diploma in accordance with Texas State law.

Examination credit is evaluated only at the student's request. Students wishing to receive examination credit must first meet with an academic advisor to complete a petition form that is then submitted to the Office of the Registrar.

Exams ten years and older will not be considered for credit. Test scores must be submitted directly from the testing agency. UT Dallas will accept AP scores printed on the official high school transcript, but only if the AP scores appear on the transcript in the official College Board format. The university does not offer correspondence courses.
**Criminal Background Check**

Certain programs require students to submit to and satisfactorily complete a background check review as a condition of admission and/or participation in education experiences. Students who refuse to submit to a background check or who do not pass the background check may be dismissed from the program. The student is responsible for the costs associated with the criminal background check.

**Texas Success Initiative (TSI)**

Registration Requirements

The Texas Success Initiative (TSI) is a state mandate that requires students to be assessed in reading, writing, and math skills prior to enrolling in college, and to be advised based on the results of that assessment (See TSI Rules). For students enrolling without a TSI Exemption, they will be required to take the TSI Assessment, to measure student proficiency in the basic areas of study for fulfillment of the TSI requirement. Each Texas institution determines an individualized education plan to encourage academic success for those students who score below the deviation standard (or do not pass the THEA test).

Students are required to either enroll in developmental education coursework if they do not pass the initial test and are granted unlimited opportunities to take the TSI Assessment.

Students required to take the TSI Assessment are subject to the following standards to be considered college-ready:

- Reading - 351
- Math - 350
- Writing - Essay score of 5 or 4 and a multiple choice score of 363

Note: If you are a student with a TSI Hold on your record, you must contact your academic advisor regarding registration options and policies. Proof of a TSI Exemption or enrollment in developmental coursework may be required.

**Texas Success Initiative State Regulations - Texas Legislative Requirements**

Title 19, Part 1, Chapter 4, Subchapter C of the Texas Administrative Code describes in detail the Texas Success Initiative (TSI) for Texas public institutions of higher education.

**Texas Success Initiative Transfer Student Provisions**

Students transferring to UT Dallas from private or out-of-state institutions must meet TSI requirements (be tested or exempted) prior to being allowed to enroll in any college-level work. Students who transfer accumulated semester credit hours to UT Dallas from a private or out-of-state United States institution may use certain transferred courses which are given common course numbers corresponding to courses approved by UT Dallas to satisfy TSI requirements. Students must have earned a course grade of C (2.000 on a 4.000 scale) or better in the corresponding courses to meet TSI requirements. If coursework does not satisfy exemption requirements, students must be tested for the remaining skill areas and must comply with
all other TSI requirements. Students transferring from other Texas public institutions of higher education must be TSI exempted or comply with the UT Dallas policies for Developmental Education.

Students entering UT Dallas are permitted to enroll in upper division (3000 and 4000 level) courses for which they have completed the prerequisites while completing the TSI requirements. However no student with 60 or more earned semester credit hours and having attempted any semester credit hours at UT Dallas shall be permitted to register for upper division courses without having satisfied all TSI requirements.

Texas Success Initiative (TSI) Exemptions

Pending institutional verification of the following situations, TSI exemptions apply to:

1. Students who are non-degree seeking or non-certificate-seeking.
2. For a period of five (5) years from the date of testing, a student who is tested and performs at or above the following standards on the following tests:

   - ACT Composite score of 23 or higher, with individual math, reading and English scores of no less than 19.
   - SAT Composite score of 1070 or higher, with 500 critical reading (formally “verbal”) and 500 math.
   - Texas Assessment of Knowledge and Skills (TAKS) 11th grade exit-level TAKS with a minimum scale score of 2200 on the math section and/or a minimum scale score of 2200 on the English Language Arts section and a writing subsection score of at least 3, are TSI exempt for the corresponding sections. (Note: The writing subsection score is often not printed on high school transcripts, but can usually be found on the exit level TAKS score report.)
   - STAAR end-of-course (EOC) A minimum score of Level 2 on the English III shall be exempt from the TSI Assessment required under this title for both reading and writing, and a minimum score of Level 2 on the Algebra II EOC shall be exempt from the TSI Assessment required under this title for the mathematics section.

3. Students who have graduated with an associate or baccalaureate degree from an accredited institution of higher education. Transcripts must be filed with the Office of Admission and Enrollment for verification purposes.

4. Students who have previously attended any Texas public institution and have been determined to have met TSI requirements by that institution.

5. A student who is enrolled in a certificate program of one year or less (some certificates, 42 or fewer semester credit hours or the equivalent) at a public junior college, a public technical institute, or a public state college.

6. A student who is serving on active duty as a member of the armed forces of the United States, the Texas National Guard, or as a member of a reserve component of the armed forces of the United States and has been serving for at least three years preceding enrollment. Students must file a Verification of Active Duty form each semester with the Office of Admission and Enrollment.

7. A student who on or after August 1, 1990, was honorably discharged, retired, or released from active duty as a member of the armed forces of the United States or the Texas National Guard or service as a member of a reserve component of the armed forces of the United States. A copy of the DD214 form showing this status is required and must be filed with the Office of Admission and Enrollment.
A private or out-of-state college or university and who have satisfactorily completed college-level coursework as determined by a grade of C or better in courses that are recognized as requiring college-level reading, writing and/or mathematical skills as approved by UT Dallas.

Note: Official transcripts should be submitted to the UT Dallas Office of Admission and Enrollment as soon as possible. Official evaluation must be completed to determine course equivalencies before a TSI waiver will be granted. If you are a student with a TSI Hold on your record, it must be removed prior to registering for courses. Contact an academic advisor in your program for more information. If you have any questions regarding TSI exemptions, please contact the TSI Coordinator at UT Dallas.

Developmental Education at UT Dallas

Students who are required to take the TSI Assessment and do not score at the college readiness levels will be required to register for Developmental Education courses for all areas in which they did not achieve the stated cut-score. Their enrollment in Developmental Education is required during the first semester of attendance. If UT Dallas does not offer Developmental Education courses in the semester the student registers then the student is required to register for Developmental Education at a local community college. Students must work with their UT Dallas School academic advisor and the UT Dallas TSI coordinator to ensure they are properly enrolled in courses at UT Dallas as well as Developmental Education courses at a local community college. If at any time during the semester a student is in violation of this policy, the student may be dropped from their UT Dallas course(s).

Placement and Enrollment into Developmental Education

UT Dallas recommends that students enroll in Developmental Education courses at Richland College, with whom UT Dallas has a collaborative relationship. UT Dallas has an information sharing agreement with Richland College that makes it easier to track and verify student enrollment and course completion. However, students may enroll in Developmental Education courses at another local community college. Students should discuss this with their UT Dallas School academic advisor and the UT Dallas TSI coordinator. Students are required to successfully complete the developmental coursework sequence at the community college to become TSI complete. A student can only become TSI complete if they have completed the highest level of the developmental education coursework at the community college or until they reach the college-ready standard on the TSI Assessment.

Participation and Attendance in Developmental Education

For students attending Richland College, attendance and continuing registration information is provided to UT Dallas by Richland College. For students attending other local community colleges, the student is responsible for regularly providing the UT Dallas TSI Coordinator proof of continued enrollment throughout the semester. Students must adhere to the policies and the procedures of the community college in regards to registration, attendance, course requirements, etc. Students who are required to be in Developmental Education for TSI purposes may not drop a developmental course unless they reach a college-ready score on the TSI Assessment, examination, become TSI exempt through alternative means, or withdraw from all university courses for the semester. All drop forms are to be signed by the Office of Undergraduate Education.
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Deleted: International Education

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Comment [MJ1]: Requested by Cristen Casey to relocate remaining sections to Resources for Study and Campus Life, 3-24-15

Comment [MV2]: Rearranged logically
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Academic

Academic Advising

The University of Texas at Dallas values its students and is committed to the success of each and every one. Professional academic advising is an important tool to help our students reach their goals. School advisors guide students through an impressive offering of degree plans. These advisors are familiar with the specific departmental emphases and faculty research interests. They help students access and communicate with faculty and instructors. Advisors assist students on issues including class suitability, degree requirements, university policies and procedures, study skills, time management, campus involvement and limited personal issues. Students will learn about required and elective options. Advisors apply credit by examination and transfer credits and assist students in ensuring their degree and graduation requirements are met. Students have access to advisors at any time but should plan to visit with them at least once each semester. UT Dallas Professional Academic Advising is an outstanding resource to help our students achieve their goals.

In addition to School based advising, the Student Outreach and Academic Retention (SOAR) office is dedicated to providing academic advising to students who are at-risk for Academic Suspension. Students not in good standing are required to meet with a SOAR advisor and follow a prescribed advising plan. The individualized plan will be designed to help each student improve their academic standing by addressing their specific needs including but not limited to study skills, time management skills, personal issues, and appropriate campus office referrals. SOAR office advising is available to all students though not required of students in good standing.

While advisors confer with students about courses and educational experiences, students themselves are responsible for defining the content of their academic program and making progress toward an academic degree. Advisors will assist students in designing an appropriate course of study that will satisfy requirements for graduation as well as offer information on particular courses and university rules and procedures. All students must verify their class schedule each semester, must see that necessary transactions are completed, and are responsible for all documentation related to schedule changes and other transactions.

Students who have chosen a major should meet with an academic advisor in the appropriate school regularly and in a timely manner prior to semester drop deadlines and course registration. All freshmen are required to meet with their advisor in order to register for classes (see Registration at catalog.utdallas.edu/2015/undergraduate/policies/registration). Students admitted to UT Dallas as freshmen or as sophomores who have not declared a major are advised by the Undergraduate Student Advising Office, an integral part of the Office of Undergraduate Education. Students remain the responsibility of Undergraduate Education until they declare a major, at which time advising will be undertaken by an advisor in the student’s program. Students must declare a major by the time they become juniors in order to have their program advising conducted by the advisors in the school in which they are registered.
All students admitted to UT Dallas as freshmen, effective fall semester 2012, are required to file degree plans no later than the end of the second semester following the semester in which the student earned 45 or more semester credit hours in accordance with Texas Education Code, Section 51.9685.

Students are strongly encouraged to meet with their academic advisor, especially when they have earned 75 semester credit hours to establish and/or review their degree plan.

Academic Grievances
A student having a grievance regarding academic concerns may have the issue considered. Procedures for appeals of academic decisions can be found at catalog.utdallas.edu/2015/undergraduate/policies/appendices/appendix1_academic-grievances.

Academic Progress
A student is considered to be making satisfactory scholastic progress when he or she is carrying an approved schedule of classes, is not on probation, and has a GPA (grade point average) of at least 2.000 (C average) in the major and overall. Students who habitually drop a significant fraction of their schedule may lose the right to drop or may be dismissed from the university for failure to make adequate academic progress.

Dean’s List
The Dean’s List recognizes students whose grades for the fall or spring semester represent the top ten percent of all students within each school who complete 12 or more UT Dallas semester credit hours within that semester. These students will be recognized as members of the Dean’s List of their respective schools. Students without a declared major are eligible for the Office of Undergraduate Education Dean’s List. Students pursuing a second baccalaureate degree, enrolled as transient and/or non-degree seeking, and graduate students enrolled in undergraduate courses are not eligible for Dean’s List. Only graded courses contributing to a student’s grade point average are included in the calculation of semester credit hours.

Final Examinations
Final exams are integral components of the curriculum for all courses and must be given at the places and times for such exams published by the Office of the Registrar in each semester’s official listing of class schedules. When a final exam is given in a course, it must be given at the time scheduled by the Office of the Registrar during the final examination period. Final exams will not be scheduled during reading days. A final exam must not last more than 2 hours and 45 minutes. Students for whom three or more final exams are scheduled in one day may petition to take the additional final exams on different days.
Grade Changes

Faculty Initiated

After a final grade has been recorded by the Office of the Registrar, faculty may change grades only to correct a clerical error or replace a grade of incomplete. A faculty initiated change of a final grade requires the written approval of the instructor, the department or program head, Associate Dean of Undergraduate Education, and the School Dean. Grade changes must be submitted by the end of the eighth week of the following long semester after the grade was awarded. Any grade change initiated after the eighth week of the long semester requires the written approval of the instructor, the department or program head, Associate Dean of Undergraduate Education, the School Dean, and the Dean of Undergraduate Education.

Student Request

A student has the right to request a review of the grades received in any class.

The only grounds for considering a grade to be incorrect are either clerical error or that the grade is arbitrary or capricious. Examples of clerical error would include, but are not limited to, a mistake in adding component grades, a mistake in recording grades, or attributing a paper or examination to the wrong student. Arbitrary or capricious means that the grade cannot be considered reasonable given the material of the course, the overall performance of the class, and the individual performance of the student. The university assumes that coursework is best evaluated by the instructor in the immediate context of the course activity. Requests for reconsideration must show with clear and convincing evidence why this assumption should be set aside.

If a student believes he or she has been assigned a grade on the basis of a clerical error or that the grade is arbitrary or capricious, the student should first seek to discuss the grade with the instructor. If this does not lead to satisfactory understanding, the student may file a formal appeal following the procedures described for academic grievances in the Rules, Regulations, and Statutory Requirements Section C. (See Academic Grievances in Appendix I).

Students must petition for a grade review by the end of the eighth week of the following long semester after the grade was received. The request must be submitted in writing to the appropriate faculty member who then has the remainder of that semester to take action.

Grade Point Average

Grade points are computed by multiplying the points for each grade by the number of semester credit hours; for example, 4.000 (A) x 3 (semester credit hours) = 12 grade points. A student’s grade point average (GPA) is determined by dividing the total number of grade points earned by the number of semester credit hours for which a grade other than I, NC, or CR is received. All GPAs, term and cumulative, are rounded from the fourth to the third digit, and three decimal places are displayed in this catalog, Galaxy, unofficial and official transcripts.

Only grades earned at The University of Texas at Dallas are used in calculating the student’s GPA.
An undergraduate student is limited to three grade-bearing enrollment attempts for any specific class. With regard to repeats, the grade from the first repeat will substitute for the original grade to determine a student's grade point average and to satisfy degree requirements. A second repeat will result in both repeats being included when computing the student's cumulative grade point average. (See Repeating Course Work at catalog.utdallas.edu/2015/undergraduate/policies/course-policies#repeat).

### Grading Scale

UT Dallas uses the following grade scale for all undergraduate students.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
<th>Grade Points per Semester Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.000</td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4.000</td>
</tr>
<tr>
<td>A-</td>
<td>3.670</td>
<td></td>
</tr>
<tr>
<td>B+</td>
<td>3.330</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3.000</td>
</tr>
<tr>
<td>B-</td>
<td>2.670</td>
<td></td>
</tr>
<tr>
<td>C+</td>
<td>2.330</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Fair</td>
<td>2.000</td>
</tr>
<tr>
<td>C-</td>
<td>1.670</td>
<td></td>
</tr>
<tr>
<td>D+</td>
<td>1.330</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Poor</td>
<td>1.000</td>
</tr>
<tr>
<td>D-</td>
<td>0.670</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>0.000</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td></td>
</tr>
<tr>
<td>CR</td>
<td>Credit</td>
<td></td>
</tr>
<tr>
<td>MN</td>
<td>Midterm Grade: not enough information to provide a grade</td>
<td></td>
</tr>
<tr>
<td>NF</td>
<td>Failure Failing for non-attendance (used to determine academic probation and dismissal)</td>
<td></td>
</tr>
<tr>
<td>NC</td>
<td>No Credit</td>
<td></td>
</tr>
</tbody>
</table>

**Academic Withdrawal**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>Withdrawn</td>
</tr>
<tr>
<td>WC</td>
<td>Withdraw Good Cause</td>
</tr>
<tr>
<td>WD</td>
<td>Withdraw Death</td>
</tr>
</tbody>
</table>
## Incomplete Grades (I)

A grade of Incomplete may be given, at the discretion of the instructor of record for a course, when a student has completed at least 70% of the required course material but cannot complete all requirements by the end of the semester. An incomplete course grade (grade of 'I') must be completed within the time period specified by the instructor, not to exceed eight weeks from the first day of the subsequent long semester. Upon completion of the required work, the symbol 'I' may be converted into a letter grade (A through F) by the instructor. If the grade of Incomplete is not removed by the end of the specified period, it will automatically be changed to F.

Extension beyond the specified limit can be made only with the permission of the instructor, the student's Associate Dean and the Undergraduate Dean. A student may not re-enroll in a course in which a grade of 'I' remains.

Students may obtain a petition/documentation form for an Incomplete in the office of the student's Undergraduate Associate Dean. The form is to be submitted to the instructor from whom the Incomplete is sought. If a significant fraction of a semester is missed with cause, see the section on Dropping and Withdrawing at [catalog.utdallas.edu/2015/undergraduate/policies/registration#dropadd](catalog.utdallas.edu/2015/undergraduate/policies/registration#dropadd).

An instructor assigning an Incomplete ('I') must submit the petition/documentation form containing a description of the work required to complete the course to the Undergraduate Associate Dean of the school offering the course. Upon approval, a copy of the petition will be forwarded to the student's Undergraduate Associate Dean to be retained with the student's academic record. The instructor alone will be responsible for determining whether the requirements for completion are met and for assigning a grade in the course.

However, if the instructor who has signed the Incomplete ('I') is no longer associated with UT Dallas and the work is completed within the time allowed before the Incomplete lapses to an F, the Associate Dean of the instructor's college may assign a committee of appropriate faculty to evaluate the material and/or obtain any other information that may be required to assign a grade in the course.

## Mid-Term Grades

Students are issued mid-term grades to apprise them of their progress within the semester. Mid-term grades are important for advising and retention purposes, therefore it is vital that the grades accurately reflect academic progress. These grades are not a part of the permanent record and will not appear on academic transcripts. Some classes will only issue a grade of credit or no credit at mid-term.

'M' grade is used for midterm grading only. It signifies that the instructor does not have enough information on a particular student to determine a midterm grade. It may not be used for final grading purposes.
Non-attending Failure Grades (NF)

It is the responsibility of each student to register for and drop a course if necessary. The 'NF' grade is an indication that a student never attended or participated in a course for the semester in question. If an 'NF' grade is used, its grade point value equals zero (0), and it will be calculated into the GPA in the same manner as a grade of 'F.'

Scholastic Status

A student is required to maintain a minimum cumulative grade point average (GPA) as specified for the student's major to remain academically eligible to enroll for subsequent semesters. Only grades received in UT Dallas classes are used to compute the GPA while transfer credit from other institutions accepted by the university is calculated in the number of semester credit hours required for graduation. Scholastic status is determined at the end of each academic semester. While grade point averages may change within a semester (such as when a student completes a class that previously had a grade of incomplete), scholastic status remains the same until the next grade reporting period.

Transcripts

Students may request copies of their official transcripts from The Office of the Registrar online via Galaxy or through www.utdallas.edu/student/registrar/transcript. All university holds must be cleared before requesting a transcript. Transcripts will reflect the individual's complete academic record. Undergraduate and graduate transcripts are issued together. Given seasonal time constraints, it is important that students request official transcripts in an appropriate time period to allow for processing and mailing. Please see www.utdallas.edu/student/registrar/transcript for further details.

Falsifying or omitting information may result in withdrawal of any offer of admission, in cancellation of enrollment, and/or in disciplinary action.

Transfer Credit

Although UT Dallas normally accepts credit from academic courses taken at other institutions of higher education which a grade of 'C' (2.000 on a 4.000 scale) or higher has been earned, specific course and degree requirements must be met in order for these courses to be included in the student's degree plan.

The Office of the Registrar evaluates an applicant's completed file to determine which credits earned at another college or university will transfer to UT Dallas. Once a student is admitted, the student’s record will be articulated for all transfer work and will reflect those credits that have been accepted by UT Dallas. UT Dallas does not offer credit for nonacademic coursework such as vocational, developmental, or remedial studies, nor does it grant credit for prior experiential learning. Coursework that is accepted for transfer credit is applicable toward satisfying requirements for a specific UT Dallas major according to the same criteria as those used for equivalent UT Dallas courses. Information about resolution of transfer disputes involving lower-division courses can be found in Appendix II.

The application of transfer credit to degree plans must be completed within the first semester of enrollment. An undergraduate advisor in the student's major, in consultation with the Associate Dean for Undergraduate Education, will determine how the transfer credits apply towards UT Dallas degree requirements. The faculty, acting through the Associate Dean of Undergraduate Education, has the ultimate responsibility for applying transfer credit to their specific major requirements. Students may request an articulation appeal through the Associate Dean of Undergraduate Education in their school within the first semester of attendance after transferring courses.

Students are urged to contact their advising office after transferring courses.
Students may not transfer to UT Dallas more than six of the final thirty (30) semester credit hours required for their degree.

To ensure that credit earned elsewhere will be accepted, continuing UT Dallas students who wish to take courses elsewhere must meet with their academic advisor for approval. Failure to receive approval from your academic advisor may result in the denial of credit.

Transfer students who begin their first semester with 45 or more semester credit hours are required to file a degree plan with UT Dallas no later than the end of the student’s first long semester in accordance with Texas Education Code, Section 51.9685, subsection C.

Students may not transfer to UT Dallas more than six of the final thirty (30) semester credit hours required for their degree.

To ensure that credit earned elsewhere will be applied toward your degree, continuing UT Dallas students who wish to take courses elsewhere must meet with their academic advisor for approval. Transcripts must be received prior to the first day of classes in the graduating semester.

Reverse Transfer Transcripts

Pursuant to the credit transfer for associate degree statute, Texas Education Code, Section 61.833, when a transfer student completes at least 90 semester credit hours at UT Dallas, and 30 of these semester credit hours were taken at a Texas community college, UT Dallas will review the student’s record and request the transcript to be sent to the Texas community college. Upon authorization from the student, UT Dallas will release the transcript to the community college. The Texas community college will review the UT Dallas transcript for possible completion of associate degree.
Undergraduate Policies and Procedures

Course Policies

Course Offerings

UT Dallas offers many courses in a wide range of subject disciplines. Course offerings may include some online or blended (online and face-to-face) courses, which are listed in the CourseBook schedule. There are also additional offerings through the UT Online Consortium. However, the University does not offer correspondence courses.

Auditing Courses

Auditing allows a student to observe the instruction of a course without earning credit. The following courses may not be audited: Computer Science and Engineering courses, Geoscience courses, Physical Education courses, Creative Writing courses, Foreign Language courses, Studio/Ensemble courses, online courses, and any course for which there is a lab fee. Participation and discussion in the course are at the discretion of the instructor. Auditing grants the privilege of hearing and observing course information and does not grant credit or access to online course tools such as eLearning.

Beginning the first day of classes through Census Day, a student may obtain an audit form at the Office of the Registrar in the Student Services Building, first floor customer service area. Please consult www.utdallas.edu/student/registrar/faq.html for more detailed audit procedures and associated non-refundable fees.

Course Load

The standard course load is 15 semester credit hours for a long semester and 12 semester credit hours in the summer.

Students wishing to register for more than 18 semester credit hours in a long semester or 15 semester credit hours in the summer must have the permission of the Associate Dean of their school; undergraduates with an undeclared major may seek that permission from the Dean of Undergraduate Education. Students authorized to enroll in more than 18 semester credit hours in a long semester or 15 semester credit hours in the summer may not withdraw from any class without permission of the Associate Dean of their school or the Dean of Undergraduate Education for those students without declared majors. Failure to secure that permission before withdrawing from a class will limit the student to a maximum of 18 semester credit hours in future semesters.

In considering course load, students must be sensitive to special considerations such as degree requirements, financial aid, visa status, and family health insurance, which typically require registration in a minimum number of semester credit hours per term in order to maintain eligibility.

For certification purposes, UT Dallas uses the following criteria for undergraduate students:

- Full-time status - 12 semester credit hours
- Three quarter-time status - 9 semester credit hours
Guidelines for Course Numbering

To guide students in the selection of courses and proper sequencing over their college career, the following guidelines should be considered:

1. Lower-division undergraduate courses

- 1xxx courses are considered to be primarily taken in the freshman year, and are introductory courses. These courses may generally be taken by any student.
- 2xxx courses are considered to be primarily taken in the sophomore year, and provide a foundation in a discipline area. Some courses are major specific, though most can be taken by any student.

2. Upper-division undergraduate courses

- Upper-division courses may require prerequisites, recommended course sequencing, and/or faculty or department permissions. The university and some majors have minimum requirements for the number of upper-division semester credit hours. Programs may require major prep course completion prior to taking upper-division courses. Programs and instructors will assure that the content and prerequisites of independent study, research, and topics classes are appropriate for the level of the class.
- 3xxx courses are considered to be primarily taken in the junior year. These courses are designed to refine the skills and knowledge gained in the lower-division courses, and are generally specific to a major field of study. Some courses may be restricted to specific majors and/or to junior level standing.
- 4xxx courses are considered to be taken primarily in the senior year. These courses are designed to provide mastery in the field of study and more depth and specificity that the 3xxx courses. Some courses may be restricted to specific majors and/or to senior level standing.

Course Numbering System

UT Dallas courses are assigned an abbreviation of the name of the subject area followed by a four-digit course number. The first digit of the course number defines the general level of the course, i.e., a 1 or 2 indicates that the course is of undergraduate freshman or sophomore level respectively, and a 3 or 4 indicates that the course is of undergraduate junior or senior level, respectively. Graduate courses begin with the digits 5 through 8.

The second digit of the course number indicates the semester credit hour value of the course. A course is given semester credit hour values according to the number of semester credit hours per week the course meets; the typical course is three semester credit hours. The type of course (for example, lecture, laboratory, or seminar) and its meeting times determine the number of meetings per week and the length of each meeting. For additional information on semester credit hours, see policy.utdallas.edu/utdpp1090.
A “V” in the second position of the course number denotes a variable semester credit hour course. The online class schedule may specify the semester credit hours available for a variable course during any given semester.

The final two digits give the course a unique number within a subject area.

In some instances of undergraduate course descriptions, a second course prefix and number in parentheses follows the first. The second course prefix and number designate the State of Texas Common Course Numbering System (TCCNS) equivalents when available. TCCNS is a standard set of designations for academic courses. Most Texas community colleges and universities have adopted this system to facilitate the transfer of academic credit from one institution to another. Wherever possible, UT Dallas course numbers match the TCCNS number, although the subject designation may differ (for example, ‘‘A versus ‘USI for the ‘Business Administration prefix).

In all cases, the course description is followed by an indication of the approximate number of contact semester credit hours per week in a semester for any lecture and/or laboratory components of the course; for example, (2-4) indicates 2 contact semester credit hours of lecture and 4 contact semester credit hours of laboratory per week.

At the end of each course description, a frequency of course offering code is available:

- S = Course is offered at least once each long semester.
- Y = Course is offered at least once a year.
- T = Course is offered at least once every two years.
- R = Course is offered based on student interest and instructor availability.

**Credit/No Credit Classes**

The credit/no credit option is intended to encourage students to take courses in topics outside of their major area. The credit/no credit option gives students the opportunity to broaden their education with less emphasis on grade points. A course may be designated by the instructor as unavailable to students on a credit/no credit basis. Conversely, some courses may only be available for credit/no credit.

A student will receive credit for C (2.000 on a 4.000 point scale) work or better. No credit will be given for work that is below C (2.000 on a 4.000 point scale). A grade of ‘‘C’’ denotes credit earned. A grade of ‘‘NC’’ denotes no credit earned. Courses taken on a credit/no credit basis will not be used in the calculation of a student’s GPA. Students should select courses for the credit/no credit option carefully, as this option may affect eligibility for honors. (See “Graduation with Honors” located at [catalog.utdallas.edu/2015/undergraduate/policies/graduation#honors](catalog.utdallas.edu/2015/undergraduate/policies/graduation#honors).)

For baccalaureate degree requirements, the credit/no credit option is limited to 12 semester credit hours or 20% of UT Dallas upper-division coursework, whichever is smaller. Courses in a student’s major that are designated as credit/no credit are not included in this limit. Complete a credit/no credit form with the appropriate academic advisor before Census Day for the semester. A student must submit the completed credit/no credit form in person to the Office of the Registrar in the Student Services Building, first floor customer service area, no later than Census Day for the semester. A student cannot repeat a letter grade course using the credit/no credit grading option.
A student may not take any course used to satisfy a Core Curriculum requirement, any course in the major or minor that is listed as a major and related course on the student's degree plan, or major prerequisite, on a credit/no credit basis if a letter grade is normally awarded in those courses. Students in the Interdisciplinary Studies program may not exercise a credit/no credit option in their foundations or concentration.

**Independent Study**

A student may take a maximum of 20 percent of the total semester credit hours of coursework undertaken at UT Dallas as Independent Study.

**Internship Program**

The Internship Program provides students with opportunities to work in assignments related directly to their fields of study. The experience provides students with the opportunity to apply what they learn in the classroom to practical settings. The primary focus of internships is educational in nature. In addition, students are able to stay in school and possibly earn money to defray college expenses, while clarifying academic interests, and targeting specific job markets.

Internships may be taken using the credit/no credit grading option depending on the student's degree program requirements. Internship coordinators at the Career Center can assist students with determining internship credit options and eligibility.

The University of Texas at Dallas has a flexible internship program and arrangements include the following:

- Parallel: full-time or part-time internship and full-time or part-time school.
- Summer: full-time or part-time internship.
- Alternating Semesters: full-time internship alternating with semesters of full-time school.

For more information about the program, contact the Career Center.
Telephone: 972-883-2943
Email: Career Center
Website: [www.utdallas.edu/career](http://www.utdallas.edu/career)

**Repeating Coursework**

There are certain courses in which students may repeat the course(s) for credit and may satisfy degree requirements. In other instances, students may repeat the course to improve their grades.

Courses transferred for credit to UT Dallas from another institution of higher education may not be repeated for additional credit.

Before repeating any course, students should contact their academic advisor to determine the application of such course credit toward graduation. Students are also advised to check with the Office of Financial Aid to determine how and if grades earned in repeated coursework impact their financial aid eligibility status.

The University of Texas at Dallas’s policy for repeating coursework is stated below.

**Taking Unlimited Repeatable Courses**

Comment [MV2]: Policy approved by CUE, Graduate Council, and CEP between 9-2-14 and 10-7-15; final version approved by Senate on 10-15-14. NOTE for web catalog: this is completely revised.

Deleted: where
There are certain courses that students may repeat the course(s) for credit. These courses in the catalog will have the statement "may be repeated for credit and considered non-duplicated courses. All semester credit hours and grade points earned from each of these courses count in a student's earned hours and cumulative grade point average (GPA). Students should review their degree program for application towards degree requirements.

Taking limited repeatable Courses

There are certain courses that students may repeat for credit with a limit on repeatability. For example, courses with the course description that states, "May be repeated for credit (9 semester credit hours maximum)." For limited repeatable courses, a student is limited to repeating the course to the maximum hours stated in the course description. The limited semester credit hours and grade points earned from each of these courses count in a student's earned hours and cumulative GPA. Students should review their degree program for application towards degree requirements. Registrations beyond the repeatable limit of the class will not count in a student's earned hours, cumulative GPA, and degree requirements.

Repeating Courses to Improve Grades

Regardless of the number of times a course is repeated, any single course can contribute only once to the number of semester credit hours required for graduation. A limited number of courses, such as independent study courses, may be repeated for credit. See Taking Repeatable Courses—General Policy for All Students.

Undergraduate students may repeat the course to improve their grades; however, if the course is not designated as a repeatable course, then any single course can contribute only once to the number of semester credit hours required for graduation.

Undergraduate Students

An undergraduate student may repeat the same course to improve his/her grades based on following:

- An undergraduate student is limited to three grade-bearing enrollment attempts for any specific class. The student cannot repeat the same course for a fourth time regardless of the grade earned.
- According to Texas Education Code §4.014, a resident undergraduate student attempting the same course, excluding designated repeatable courses, for the third time will be charged tuition at the nonresident undergraduate student rate for the same number of semester credit hours.
- Courses cross-listed under more than one course prefix are considered the same course for repeat counting.
- All withdrawals (academic and non-academic withdrawals) are counted as grade-bearing enrollment attempts.
- Undergraduate students who are Texas residents should be aware that state law limits the number of semester credit hours an undergraduate Texas resident may attempt while paying tuition at the rate provided for Texas residents. See Excessive Undergraduate Hours.

The grade from the first attempt will not be used in computing a student's grade point average. All further repeats will be used in computing the student's GPA. See Grade Point Average (GPA) and Transfer Credit. All grades will appear on the student's transcript. A notation beside the first grade will indicate that the course has been repeated. Courses that were originally taken for a letter grade may not be repeated for credit/no credit or pass/fail in lieu of a letter grade.

Undergraduate Coursework from Other Institutions of Higher Education

Undergraduate students who fail a course in residence at UT Dallas may repeat the course at another institution of higher education. An undergraduate student may not transfer an equivalent course if that course was taken at UT Dallas with a passing grade (D's included). Upon successful completion of the
repeated course with a grade of at least C (2.000 on a 4.000 scale), the course may be transferred to UT Dallas where it will meet the content requirements of the course failed in residence and contribute semester credit hours toward graduation. However, the grade of F earned at UT Dallas will remain a part of the student’s academic record and will be computed as a part of the cumulative GPA.
Undergraduate Policies and Procedures

Disciplinary Actions Associated with Academic Standing

Academic Good Standing

Students at UT Dallas are expected to maintain a grade point average (GPA) of at least 2.000 on a 4.000 scale, which equates to a C average. Additionally, students are expected to maintain a GPA of 2.000 in their major-related courses to remain in Academic Good Standing.

Disciplinary Status Overview

UT Dallas maintains academic disciplinary policies to encourage students to make the necessary academic and life changes to succeed. Students (including those who seek second baccalaureate degrees or post-baccalaureate non-degrees) who fail to meet the minimum expectations of Academic Good Standing must meet more stringent standards and regularly consult with academic advisors.

a. Disciplinary Policy for First-Degree Seeking Students

The disciplinary policy provides a student with several opportunities to make the necessary adjustments prior to a final dismissal from UT Dallas.

UT Dallas Disciplinary Status:

- Academic Probation
- Academic Warning
- First Academic Suspension (One Semester)
- Second Academic Suspension (One Year)
- Final Dismissal

b. Disciplinary Policy for Second Baccalaureate Degrees or Post-Baccalaureate Non-Degree Seeking Students

Students who earned an undergraduate degree at UT Dallas or another institution of higher education and are enrolled at UT Dallas are subject to the provisions of this policy, except that they may only be placed on the following disciplinary statuses:

- Academic Probation
- Academic Warning
- Final Dismissal
Each Disciplinary Status will be indicated on the student's academic record.

**Academic Probation**

If a student's cumulative GPA falls below 2.000, the student will be placed on Academic Probation. Academic Probation will be indicated on the student's academic record.

Academic Probation is designed to help students make the required adjustments to achieve success and a degree at UT Dallas. These adjustments will vary based upon the individual circumstances of each student, but should be taken seriously.

If a student is placed on Academic Probation, the student will be required to follow certain protocols and meet higher academic standards. These protocols and standards are designed to bring the student back to Academic Good Standing and allow the student to meet graduation requirements.

A student on Academic Probation is required to meet the following Academic Probation Requirements for the semester:

**Academic Probation Requirements:**

- Earn a minimum semester GPA of 2.200.
- May not withdraw or request an incomplete from a class.
- Meet with your School academic advisor prior to registration.
- Retake all required Major and university Core Courses failed the previous semester.¹
- Register for a maximum of 15 semester credit hours in a long semester or 9 semester credit hours in a summer semester.²
- Maintain satisfactory progress towards graduation.
- For students with less than 60 UT Dallas earned semester credit hours:
  - Meet with a Student Outreach and Academic Retention (SOAR) office advisor.
  - Follow the SOAR advising plan developed with the advisor.

If a student on Academic Probation meets the Academic Probation Requirements but fails to achieve a cumulative GPA of 2.000, the student will remain on Academic Probation and must continue to comply with all Academic Probation Requirements.

If at any time, a student's cumulative GPA meets the minimum requirements of 2.000 overall, the student will regain Academic Good Standing. A student's cumulative GPA is only affected by UT Dallas coursework. Coursework at another institution cannot be used to return a student to Academic Good Standing.

¹ The Associate Dean of the student's school reserves the right to alter this requirement on a case-by-case basis.

² The Associate Dean of the student's school reserves the right to alter this requirement on a case-by-case basis. If a student has registered for more than 15 semester credit hours prior to his or her placement on Academic Probation, the student's schedule must be reduced to a maximum of 15 semester credit hours. The student is required to meet with his or her School academic advisor to find an appropriate adjustment to the student's academic schedule.
Academic Warning

A student will be placed on Academic Warning for failure to meet the Academic Probation requirements. A student on Academic Warning is also required to meet the Academic Probation requirements as listed below:

**Academic Warning Requirements:**

- Earn a minimum semester GPA of 2.200.
- May not withdraw or request an incomplete from a class.
- Meet with your School academic advisor prior to registration.
- Retake all required Major and university Core Courses failed the previous semester.\(^3\)
- Register for a maximum of 15 semester credit hours in a long semester or 9 semester credit hours in a summer semester.\(^4\)
- Maintain satisfactory progress towards graduation.
- For students with less than 60 UT Dallas earned semester credit hours:
  - (a) Meet with a Student Outreach and Academic Retention (SOAR) office advisor.
  - (b) Follow the SOAR advising plan developed with the advisor.

Academic Warning should be a wake-up call for students who have not been able to make the adjustments required of students on Academic Probation. If a student is placed on Academic Warning, the student should consider dramatic alterations in all of the circumstances that affect his or her academic progress. The student should increase the volume of work with the SOAR advisor and meet with his or her Faculty Mentors or Associate Dean to determine an academic path to success.

If the student meets the Academic Warning requirements, but the student does not have a cumulative GPA of 2.000, the student will remain on continued warning status as shown on his or her transcript and will return to Academic Probation. If the student again fails to meet the Academic Warning requirements, while on Academic Warning, the student will be suspended.

When placed on suspension, it is the student’s responsibility to submit required documents to meet the readmission requirements for re-entry. Readmission is not guaranteed.

If at any time, a student’s cumulative GPA meets the minimum requirements of 2.000 overall the student will regain Academic Good Standing. A student’s cumulative GPA is only affected by UT Dallas coursework. Coursework at another institution cannot be used to return a student to Academic Good Standing.

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3. The Associate Dean of the student's school reserves the right to alter this requirement on a case-by-case basis.

4. The Associate Dean of the student's school reserves the right to alter this requirement on a case-by-case basis. If a student has registered for more than 15 semester credit hours prior to his or her placement on Academic Probation, the student's schedule must be reduced to a maximum of 15 semester credit hours. The student is required to meet with his or her School academic advisor to find an appropriate adjustment to the student's academic schedule.
Academic Departure

First-degree seeking students who leave the university on Academic Probation or Academic Warning may be readmitted with the same status, even if they have attended another institution in the interim. Performance at another institution will be a factor in the readmission decision.

Academic Suspension

First-degree seeking students are automatically placed on Academic Suspension for failure to meet the Academic Probation requirements while on Academic Warning. Second baccalaureate degree-seeking or post-baccalaureate non-degree seeking students shall be subject to final dismissal for failure to meet the Academic Probation requirements while on Academic Warning.

First-degree seeking students on Academic Suspension may not enroll in, audit, or visit a class unless readmitted as described below. Students who have already pre-registered for classes will automatically be dropped from all classes. Notice of Academic Suspension will show on the student's academic record.

Length of Academic Suspension

- A student's First Academic Suspension will be for a period of one long semester.
- A student's Second Academic Suspension will be for a period of one year (12 months).
- A student's third Academic Suspension is Final Dismissal from UT Dallas without a possible readmission.

Readmission

A student, who has been placed on suspension, must complete and submit for approval the Undergraduate Academic Suspension Readmission Petition Form for readmission. It is the student's responsibility to submit required documents to meet the readmission requirements for re-entry. Readmission is based on academic work elsewhere that indicates good prospects of success at UT Dallas (as determined by his or her Associate Dean). The student should meet with his/her UT Dallas academic advisor about appropriate coursework prior to enrolling in courses at another institution. Readmission is not guaranteed.

A student placed on One Long Semester Academic Suspension must petition to his or her Associate Dean for readmission. If the student has not declared a major or is a non-degree seeking student, the student must petition the Dean of Undergraduate Education.

A student placed on One Year Academic Suspension must petition to his or her Associate Dean for readmission. The Dean of Undergraduate Education must approve the readmission of all students placed on One Year Academic Suspension.

A student that is readmitted may be subject to additional probationary conditions placed upon them by the Associate Dean or Dean of Undergraduate Education. Such additional probationary conditions may be
individual to the student and his or her academic circumstances, but will be designed to encourage the student to reach Academic Good Standing and be eligible for Graduation.

A student who reenters the university after Academic Suspension will reenter on Academic Warning. The student should follow the requirements as outlined in the Academic Warning section as cited on catalog.utdallas.edu/2015/undergraduate/policies/disciplinary-actions#warning

**Changing Majors**

A student may find that his or her interests and skills are better suited to a different academic discipline. If a student has been placed on Academic Suspension and wishes to select a different academic discipline, the student must first complete the Undergraduate Change of Major Form prior to petitioning for readmission. If the Change of Major is approved, the student must petition to the new Associate Dean for readmission.
Undergraduate Policies and Procedures

Graduate Courses

Upper-division undergraduates, who are classified as seniors and core complete, may petition the Undergraduate Associate Dean and Graduate Advisor to take graduate courses by completing the appropriate form available in the student's academic advising office. If approved, these graduate courses can be applied toward satisfying undergraduate degree requirements or can be designated for future application toward a graduate degree requirement at UT Dallas. The student must declare at the time of registration for the course, on a form provided by the Undergraduate Associate Dean, how each approved course is to be applied. Once applied, the options cannot be changed.

Graduate Courses Applied Toward an Undergraduate Degree

Up to 12 semester credit hours of graduate work taken as an undergraduate may be used for completing any baccalaureate degree at The University of Texas at Dallas. Pass/Fail grading for graduate courses will be permitted only in this category but must be approved by the instructor prior to the start of class.

Graduate Courses for Possible Future Use as Graduate Credit

Undergraduates may take up to 12 semester credit hours of graduate courses to reserve for possible application toward a graduate degree. To register, undergraduate students must obtain permission from the course instructor and from the graduate advisor of the program in which the course is offered. Such courses with an earned grade of 'B' or better will be eligible for application to the student's graduate record when the student is admitted to a graduate program. These courses will not apply to the student's undergraduate degree and will not affect the student's undergraduate GPA.

Graduate Courses Taken in Fast Track Options

Upper-division undergraduates, who are classified as seniors and core complete, may petition their Associate Dean to take graduate courses in the Fast Track program, and must have completed 90 semester credit hours and core complete. A number of programs at The University of Texas at Dallas offer an accelerated Fast Track option that allows qualified senior level undergraduate students to take specified master's level coursework.

A Fast Track undergraduate student, with the permission of the student's Undergraduate Associate Dean and the graduate advisor of the intended graduate program, follows the program requirements regarding graduate courses and maximum graduate semester credit hours, applicable to a graduate degree (not greater than 15 semester credit hours). The graduate semester credit hours may be used to complete the baccalaureate degree and also to satisfy requirements for the master's degree.
The grade earned in the graduate coursework must be a 'B' (3.000) or better to be applied to the master's degree requirements. A student may only Fast Track into ONE graduate program.

Comment [JMM5]: Does this statement need to be included in the catalog based on the BBSC requirements?

Deleted: The Naveen Jindal School of Management requires students to meet its graduate admission requirements including completion of the Graduate Management Admissions Test (GMAT) prior to receiving the baccalaureate degree.

Graduate programs at UT Dallas may accept admission to a Fast Track program as satisfying Graduate Record Exam (GRE) criteria for admission to the graduate program.
Graduation

Timely Graduation

In accordance to Texas Education Code, section 51.9195, The University of Texas at Dallas provides current undergraduate students information in understanding the benefits of timely graduation, including the average tuition costs and earnings lost when graduating more than four years. For additional information, see http://www.utdallas.edu/tuition/on-track/

Application for Graduation

Students must complete the online application for graduation after meeting with their academic advisor. The procedures and deadlines for submitting this application are listed in the online Comet Calendar and Academic Calendar. Students are encouraged to apply for graduation prior to registering for their last semester. Students who apply after the posted deadline will be required to pay a nonrefundable late fee. Completion of the graduation application is an acknowledgement upon completion of all degree requirements, the student will graduate at the end of the semester. Students cannot withdraw the online application for graduation once it has been submitted. The university reserves the right to graduate any student who has satisfactorily met all requirements for graduation. All in-progress courses on the academic record must contain final grades prior to certification and posting of final graduation status. Once the graduation grade point average (GPA) is set, any change of grades or repeat of coursework only affect the overall GPA.

Graduation Commencement Ceremonies

Commencement ceremonies are held at the conclusion of each spring and fall semester. There is no summer graduation ceremony.

Students scheduled to graduate following a summer semester may petition to take part in the following fall ceremony. Students who graduate at the conclusion of the fall or spring semester may only graduate in the respective graduation ceremony.

Any questions regarding the commencement ceremonies should be directed to the Office of the Registrar.

Graduation with Honors

Students who show particular distinction in scholarship at the university are afforded the opportunity of graduating with Collegium V Honors, Latin Honors and/or Major Honors. Only grades earned at The University of Texas at Dallas are used in determining grade point average (GPA) for graduation with honors.

Collegium V Honors Program
Students graduating with Collegium V Honors must complete at least 24 semester credit hours within the Honors Program and maintain a 3.500 cumulative grade point average on at least 45 semester credit hours of graded credit. In their senior year, students must complete a senior thesis or senior project. They also must participate in a select number of extra-curricular events over the course of their academic career.

**Latin Honors**

Graduates may earn one of three degrees of Latin Honors: summa cum laude, magna cum laude, or cum laude. Requirements for graduation with Latin Honors are as follows:

A minimum of 45 UT Dallas graded semester credit hours are required. Each Latin Honors level requires a minimum GPA to be attained over all coursework taken at The University of Texas at Dallas. In the case of a student with a double major who wishes to graduate with Latin Honors, a single honors designation will be awarded in the primary major. Students graduating with double degrees who wish to receive honors for both degrees must complete separate honors requirements for each degree.

The grade point requirements for Latin Honors are issued by the university in the summer of each academic year and apply to graduates in the following academic year. The thresholds for each level of honors are determined from a rolling average of the grades of all graduates for the previous six long semesters. Averages are computed separately for each school within the university. The GPA that represents the top five percent of all graduates in a particular school will be considered the threshold for awarding summa cum laude honors. The GPA that defines the next 10 percent in each school will be the lower limit for magna cum laude. The average grade that defines the next 15 percent in each school will be considered the benchmark for awarding cum laude honors. A minimum GPA of 3.400 is required for any Latin Honors.

**Major Honors**

Students may graduate with honors from their individual school based on participation in their school's Honors Program as applicable. The school’s Honors Program may provide two levels of recognition, Honors and Distinction. All students must have completed a minimum of 30 graded semester credit hours to qualify for Major Honors.

The requirements for school honor's recognition vary across schools. Students should review the descriptions within the school section of the catalog. To graduate with school distinction honors, students must complete an undergraduate thesis judged by faculty to be of exemplary quality.

Collegium V, Latin, and Major Honors are reported on students’ transcripts and diplomas.

**Graduation Under a Particular Catalog**

Provided the requisite courses continue to be offered, and given continuous enrollment, students are bound by the Core Curriculum requirements of the catalog in force at the time of admission, within that catalog's six-year limit. For students who change their major, the graduation requirements for that major will be those stated in the catalog in force at the time of the change. The Core Curriculum requirements, however, remain those of the catalog in force at the time of matriculation unless the student specifically chooses those of a more recent catalog or the catalog in force at the time matriculation expires. Should any requisite major courses cease to be offered, substitutions would be made by the Associate Dean of Undergraduate Education.
Should any requisite Core Curriculum courses cease to be offered, substitutions will be made by the Office of Undergraduate Education. Core Curriculum requirements must be met by all students pursuing a baccalaureate degree at The University of Texas at Dallas, regardless of their major. A specific course may be used to satisfy only one core requirement. Individual academic programs may require courses contained in parts of the university Core Curriculum to satisfy particular degree requirements. Students may be required to take extra courses if they fail to select these courses.

Administrative requirements such as minimum grade point requirements may change for all students with the issuance of a new catalog.

Graduation Requirements

Each candidate for a baccalaureate degree must complete a minimum of 120 semester credit hours of coursework. Some degree programs require more than 120 semester credit hours. Within this requirement, students must complete the following:

- Incoming freshmen must enroll and complete requirements in UNIV 1010 Freshman Seminar. They will also enroll into the corresponding school-related freshman seminar course, i.e. ARHM 1100, ATEM 1100, BS1103, CGS 1100, CLOD 1100, ECS 1100, EPPS 1110, NATS 1101, NSC 1100, PSY 1100, SPAU 1100, or UNIV 1100. Erik Jonsson School of Engineering and Computer Science majors must enroll and receive credit for ECS 1200 which will satisfy the UNIV 1010 graduation requirement.

- Students, including transfer students, who complete their core curriculum at UT Dallas must enroll and complete UNIV 2010.

- At least 51 semester credit hours of upper-division (3000/4000 level) coursework, to include a minimum of 12 semester credit hours of advanced courses in the major subject.

- At least 45 semester credit hours must be taken at The University of Texas at Dallas.

- At least 24 of the last 30 semester credit hours needed for a baccalaureate degree must be taken at the University of Texas at Dallas.

- No coursework may be taken off campus in a student's final graduating semester.

- All transfer credit must be submitted with official transcripts prior to a student's final graduating semester.

- All in-progress coursework must be completed in order to graduate.

- A maximum of three semester credit hours of physical education activity can be applied toward degree requirements.

- A minimum GPA of 2.000 on a 4.000 scale (C average) is required in the major and related courses, in any declared minor, and overall. Major preparatory classes are not included in the calculation of the major GPA. Only grades earned at The University of Texas at Dallas are used in calculating this GPA.

- Students must satisfactorily complete all degree requirements specified by the school or college in which the degree is offered. (See "Academic Degree Requirements" at catalog.utdallas.edu/2015/undergraduate/curriculum#academic-degree-requirements.) In many instances, the college/school/department academic program requirements may exceed the university core requirements.

- Students must satisfy the Core Curriculum which is described in full at catalog.utdallas.edu/2015/undergraduate/curriculum/core-curriculum.
• Students who complete their core curriculum at UT Dallas must take UNIV 2020.

• A candidate for a degree must be enrolled at UT Dallas during the semester in which the Office of the Registrar confirms completion of degree requirements. Students may register in absentia if enrollment in a course is not required. (In-absentia registration is explained at catalog.utdallas.edu/2015/undergraduate/policies/registration#inabsenta.)

• Students must complete an official degree plan prepared by the academic unit, pursuant to the required filing of degree plan, Texas Education Code, Section 51.9685. The degree plan must be on file no later than the completion of 45 or more earned semester credit hours. The degree plan will be reviewed at the completion of 75 semester credit hours.

• Students will be notified by the university that filing a degree plan is required by state law and prevent students from obtaining official transcripts until the degree plan is filed.

• To qualify for a double degree or a double major from The University of Texas at Dallas, please review "Other Degree Requirements" at catalog.utdallas.edu/2015/undergraduate/curriculum/other-degree-requirements.

Note: General and specific requirements for degrees in undergraduate programs may be altered in subsequent catalogs.
Classification of Students

Freshmen and sophomores are lower-level students, juniors and seniors are upper-level students.

- Freshman: A student who has successfully completed fewer than 30 semester credit hours.
- Sophomore: A student who has successfully completed 30-53 semester credit hours.
- Junior: A student who has successfully completed 54-89 semester credit hours.
- Senior: A student who has successfully completed 90 or more semester credit hours.

Registration

Before registering for classes, all students entering a Texas university must receive a vaccination or booster (if the vaccination is five years old) against bacterial meningitis before enrollment in accordance with Texas Education Code, Section 51.9192 as of January 1, 2012. Entering students who are 22 years of age or older are exempt. Please contact the Office of the Registrar, 972-883-2342 or go to www.utdallas.edu/student/registrar for additional information.

Students may participate in a course only after officially registering and paying through the proper procedures. Students are not permitted to sit in classes without being officially enrolled or auditing the course. The Office of the Registrar officially notifies an instructor of the names of the students enrolled in a course utilizing the Orion class roster. Students will not receive credit for courses for which they are not registered.

Registration in UNIV 1010 is a University requirement for incoming freshmen. Registration in UNIV 2020 is also a University requirement for students, including transfer students, who complete their core curriculum at UT Dallas.

Dates for Registration

Registration dates are listed online in the Academic Calendar or Comet Calendar. All dates and formal procedures for registration and late registration are listed: www.utdallas.edu/student/registrar/lookup/dropadd.html.

Continuing students will receive an enrollment appointment to register during the early registration period. Early registration helps to ensure enrollment in classes needed to fulfill degree requirements. All freshmen, undeclared continuing students, and students who changed their major must meet with their academic advisor prior to registering for classes.
Newly admitted students for the semester will have an opportunity to register at orientation. All newly admitted students must meet with their academic advisor prior to registering for classes.

In Absentia Registration

In absentia registration provides an opportunity for a degree candidate to register for the semester in which the degree is to be completed without taking formal coursework. In absentia registration is permissible for a degree candidate who is removing an incomplete grade (I) or for a degree candidate who has left the university and is transferring authorized and approved credit to qualify for completion of a degree. In absentia registration requires a nonrefundable/nontransferable fee.

Administrative Drop

An administrative drop may occur due to the following reasons:

• The student has not satisfied the prerequisites for the course.
• The student has not satisfied probationary requirements resulting in suspension.
• Judicial affairs request.
• The student has not made appropriate tuition and fee payments.
• The student's enrollment is in violation of academic policy.
• The student was not admitted for the term in which they registered.

Auditing a Class

See the Auditing Courses section at catalog.utdallas.edu/2014/undergraduate/policies/course-policies#auditing.

Classification of Students

Freshmen and sophomores are lower-division students. Juniors and seniors are upper-division students.

• Freshman: A student who has successfully completed fewer than 30 semester credit hours.
• Sophomore: A student who has successfully completed 30-53 semester credit hours.
• Junior: A student who has successfully completed 54-89 semester credit hours.
• Senior: A student who has successfully completed 90 or more semester credit hours.

Concurrent Enrollment at Other Public Institutions of Higher Education
A student should obtain prior written approval from their school to ensure that a course taken at another institution while the student is concurrently registered at The University of Texas at Dallas will count toward the student's degree.

In accordance to Texas Education Code, Section 54.011, when a student registers at more than one public institution of higher education at the same time, the student shall pay the full tuition charge to the first institution at which the student is registered.

If, at the time of registration, a student can produce evidence of having already paid his or her tuition at another public institution of higher education in Texas, the student should present a copy of the fee receipt from that institution to the Bursar Office. For more information about fees for students enrolled concurrently at two institutions, contact the Bursar Office at www.utdallas.edu/bursar/custsvc/contact.

Cooperative Agreements

A concurrent enrollment agreement is in place between The University of Texas at Dallas, The University of Texas at Arlington, and The University of Texas Southwestern Medical Branch. This agreement allows any student enrolled concurrently between these institutions to receive a waiver of certain fees. Students must be enrolled in at least one semester credit hour at their home institution to be considered concurrently enrolled. Students must apply for concurrent enrollment with The Office of the Registrar in the Student Services Building, first floor customer service area.

Visiting UT System Students Program

The Visiting UT System Students Program is designed to allow upper-level and graduate or professional students enrolled in an institution of the UT System to take courses or engage in research at another institution within the UT System during a regular semester or summer session. Each campus must appoint an individual designated to coordinate the visiting student program at both the home and host institution. Every campus has the responsibility to determine the academic qualifications necessary for their students to participate in the visiting program. Approval of a student's proposed visitation will be contingent upon space and desired courses being readily available in the proposed visitation program and, for participation in a research laboratory, upon approval of the director of the laboratory (Regent's Rules 50701).

Dates for Registration

Registration dates are listed online in the Academic Calendar or Comet Calendar. All dates and formal procedures for registration and late registration are listed: www.utdallas.edu/student/registrar/lookup/dropadd.html. Continuing students will receive an enrollment appointment to register during the early registration period. Early registration helps to ensure enrollment in classes needed to fulfill degree requirements. All freshmen, undeclared continuing students, and students who changed their major must meet with their academic advisor prior to registering for classes.
Newly admitted students for the semester will have an opportunity to register at orientation. All newly admitted students must meet with their academic advisor prior to registering for classes.

Deadlines for Adding or Dropping a Class

Add

Beginning the first (1st) day of class through the sixth (6th) class day, students may add a class without the instructor's or advisor's signature. However, students in the following categories must still meet with an academic advisor before adding classes:

- Students newly admitted to The University of Texas at Dallas (including transfer students and freshmen),
- Students without declared majors and those students who are not in good academic standing. Please see the Comet Calendar's academic section for specific deadlines.

Drop

Courses dropped on or before Census Day will not appear on the student's transcript.

Students may drop a class without any permission required until the end of business on Census Day.

After Census Day, permissions to drop are required from the school or college in which the student is admitted.

W Period

Through the sixth (6th) class week of a long semester, students may withdraw from courses by completing a drop form and having it signed by their academic advisor and course instructor. A grade of 'W' (withdrawn from course) will appear on the student's transcript.

WL Period

During the seventh (7th) through ninth (9th) class weeks of a long semester, students who submit a completed drop form will receive a grade of 'WL' (withdrawn late). The student must obtain the instructor's and advisor's signatures on the form.
After the ninth (9th) class week of a long semester, a student may only withdraw from a class for non-academic reasons.

**Dropping and Withdrawing**

The university makes a distinction between dropping a class prior to the 12th class day (Census Day - Fall/Spring), an academic action that is not posted to the student's permanent record, and withdrawing from a class (following Census Day) at which point the academic action becomes a part of the student's transcript.

**Six Courses Drop Limitations**

Texas law mandates that a student who enrolls in a Texas public institution as a first-time freshman in fall 2007 or later, not be allowed to withdraw from more than six courses over his or her entire undergraduate career including all courses taken at any Texas public institution of higher education. Legislatively-mandated reasons for withdrawing from a class that do not count toward the six-class limit include, among others, a severe illness or other debilitating condition that affects the student's ability to complete the course; the student's need to care for a sick, injured, or needy person if the care affects the student's ability to complete the course; the death of the student's family member or of a person considered to have a sufficiently close relationship to the student; the active duty service as a member of the Texas National Guard or the armed forces of the United States of the student, a family member, or a person considered to have a sufficiently close relationship to the student; or a change in the student's work schedule that is beyond the control of the student and that affects the student's ability to complete the course.

The university has an appeal process by which students can request exemption for a specific withdraw (See on-Academic Withdrawal: [catalog.utdallas.edu/2015/undergraduate/policies/registration#nonacademic-withdrawal](catalog.utdallas.edu/2015/undergraduate/policies/registration#nonacademic-withdrawal)). Students should contact the Office of Undergraduate Education for more information.

As always, students may drop classes without penalty prior to the 12th class day (Census Day) in any semester.

Students who drop all courses in a given semester must officially withdraw from the university. (See on-Withdrawal/Resignation from the University: [catalog.utdallas.edu/2015/undergraduate/policies/registration#university-withdrawal](catalog.utdallas.edu/2015/undergraduate/policies/registration#university-withdrawal)). Students who habitually drop a significant fraction of their schedules may lose the right to drop or may be dismissed from the university for failure to make adequate academic progress (See on-Academic Progress: [catalog.utdallas.edu/2015/undergraduate/policies/academic#progress](catalog.utdallas.edu/2015/undergraduate/policies/academic#progress)).

**Administrative Drop**

An administrative drop may occur due to the following reasons:

- The student has not satisfied the pre-requisites for the course.
• The student has not satisfied probationary requirements resulting in suspension.
• Judicial affairs request.
• The student has not made appropriate tuition and fee payments.
• The student's enrollment is in violation of academic policy.
• The student was not admitted for the term in which they registered.

Drop Appeal Procedures

Students, who believe they have dropped a course, but receive a grade for that course at the end of the semester, have one calendar year in which to provide documented proof of the processed drop to the Dean of Undergraduate Education to appeal the posted grade.

In Absentia Registration

In absentia registration provides an opportunity for a degree candidate to register for the semester in which the degree is to be completed without taking formal coursework. In absentia registration is permissible for a degree candidate who is removing an incomplete grade (I) or for a degree candidate who has left the university and is transferring authorized and approved credit to qualify for completion of a degree. In absentia registration requires a nonrefundable/nontransferable fee.

Non-Academic Withdrawals

To withdraw from a course for non-academic reasons, students must complete a written petition detailing the nature of the request and include supporting documentation. Grounds on which such requests may be granted include but are not limited to documented serious medical conditions and exigent family circumstances.

Non-academic withdrawal petitions may be submitted at any time during the semester. Non-academic withdrawal petitions are to be obtained from the Undergraduate Student Advising Office. The Director of Academic Advising will distribute the petition to a committee whose members will independently review the petition and either approve or deny the request to withdraw. The committee consists of three academic advisors, none of whom is from the school of the student petitioning. The Assistant Dean of Undergraduate Education will inform the student of the outcome. Special procedures apply to non-academic withdrawals for medical/mental health issues, as detailed more fully below.

NOTE: It is extremely important that students petitioning to withdraw from a class for non-academic reasons continue to attend and participate in the class, if possible, until the petition request is resolved. If the petition is approved, the student will receive a withdrawal designation commensurate with the request (see "Grading Scale" in Academic Policies and Procedures) for the course. If the petition is denied, the student will receive the grade earned in the course. In general, a request for non-academic withdrawal must apply to all courses in which a student is enrolled. Selective withdrawal will be permitted only under exceptional circumstances and by appeal.
to the Dean of Undergraduate Education. Petition for selective withdrawal can only be submitted after a request for non-academic withdrawal has been approved by the committee.

## Appeal of a Denied Petition for Non-Academic Withdrawal

Students whose non-academic withdrawal petitions are denied may appeal in writing to the Office of Undergraduate Education. All appeals will go to the Dean of Undergraduate Education for review. The Dean's decision shall be final.

## Medical and/or Mental Health Withdrawal from the University

Students experiencing a significant and unforeseeable medical or mental health condition, compromising the student's ability to effectively participate in their educational program, may request withdrawal from classes or, in rare circumstances, reduce their course loads at the university, without unnecessary academic penalty.

A medical withdrawal from the university can be granted only for the current or immediately preceding semester. Only in rare cases may students petition for a medical withdrawal for an earlier semester.

Students should refer to the Academic Calendar for the established withdrawal and drop dates. A student granted medical withdrawal or course load reduction will be assigned a grade of 'WI' for the affected courses. Students will be limited to one medical withdrawal during their academic career at UT Dallas, unless given special permission by the Dean of Undergraduate Education. Medical Withdrawal requests must be submitted in writing using the same petition as the request for non-academic withdrawal referenced in the first paragraph of this policy. Such requests must be accompanied by a recent evaluation supported through documentation from a licensed doctor, other licensed medical provider (e.g. physician's assistant), or mental health professional. Hospitalization records from a recent admission, if relevant, should also accompany any application. The committee will review the request and any supporting documentation provided by the student, to determine whether the medical or mental health issues adversely affecting the student's ability to function academically are/were substantial enough to warrant the student's withdrawal under this policy.

Upon that review, and not later than one month after receiving a completed petition, the committee will provide a written decision. The student will be notified of the final determination in writing in a manner consistent with the policies and procedures established by the Office of Undergraduate Education.

## Refunds following Withdrawal

Any refund of tuition and/or fees will follow the university's refund Policy for Withdrawal or Dropped Courses (see catalog.utdallas.edu/2014/undergraduate/tuition-and-financial-aid/tuition-refund) at the time of the effective date of the withdrawal. The Dean of Undergraduate Education will determine the effective date of the withdrawal.
Appeal of a Denied Petition for Non-Academic Withdrawal

Students whose non-academic withdrawal petitions are denied may appeal in writing to the Office of Undergraduate Education. All appeals will go to the Dean of Undergraduate Education for review. The Dean's decision shall be final.

Request to Return Following a Medical/Mental Health Withdrawal

Students who are granted medical withdrawals and wish to return to UT Dallas must submit their request for re-enrollment in writing to the Dean of Undergraduate Education or designee. The Medical Readmission Committee (Associate Dean of Students, Director of Counseling Center, Director of Student Health Center, and Assistant Dean of Undergraduate Education, or their designees) via the Office for Undergraduate Education will assess the information provided by the student and render a decision regarding readmission. Such requests must be supported by a current release of information form from the licensed doctor, other licensed medical provider (e.g., physician's assistant), or mental health professional providing their care. The committee will evaluate the information provided by the primary provider to ensure that it supports the student's re-enrollment, and will forward a written decision to the Dean of Undergraduate Education and/or their designee. The Dean and/or their designee will inform the student, in writing, of the committee's decision as to whether the student's return is appropriate. In addition, before being allowed to re-enroll, students may be required to correspond with the Director of the respective service in order to forecast any possible needs and to facilitate maximizing the student's potential for a successful return.

In the event of denial of readmission, the student may appeal to the Dean of Undergraduate Education. A written appeal (a letter from the student explaining the circumstances) must be received in the Office of Undergraduate Education within 10 working days of receipt of notification of denial of readmission. The Dean's (or designee's) decision is final.

Visiting UT System Students Program

The Visiting UT System Students Program is designed to allow upper-level and graduate or professional students enrolled in an institution of the UT System to take courses or engage in research at another institution within the UT System during a regular semester or summer session. Each campus must appoint an individual designated to coordinate the visiting student program at both the home and host institution. Every campus has the responsibility to determine the academic qualifications necessary for their students to participate in the visiting program. Approval of a student's proposed visitation will be contingent upon space and desired courses being readily available in the proposed visitation program and, for participation in a research laboratory, upon approval of the director of the laboratory (Regent's Rules 50701).
Withdrawal/Resignation from the University

A student who wishes to withdraw entirely from the university must obtain a Registration, Drop/Add and Withdrawal Form at www.utdallas.edu/student/registrar/forms. The student must complete the appropriate section of the form to withdraw from the university. The student submits the completed Registration, Drop/Add and Withdrawal Form in person to the Office of the Registrar in the Student Services Building, first floor customer service area. Students must withdraw on or before the last 'W' withdrawal day for that semester.

Refunds following Withdrawal

Any refund of tuition and/or fees will follow the university’s refund Policy for Withdrawal or Dropped Courses (see catalog.utdallas.edu/2015/undergraduate/tuition-and-financial-aid/tuition-refund) at the time of the effective date of the withdrawal. The Dean of Undergraduate Education will determine the effective date of the withdrawal.
High School Concurrent Enrollment

Special Registration for High School Students

The Dean of Undergraduate Education will consider the co-enrollment special registration of highly qualified high school students in specific UT Dallas mathematics courses only on an individual basis. Permission for enrollment special registration in particular mathematics courses will be granted at the discretion of the Dean of Undergraduate Education.

Co-enrollment Registration decisions will be based on the academic credentials of the applicant, including the applicant’s completion of all calculus courses at the student’s local community college, the scholastic rigor of the requested classes, the course prerequisites, and the demand for the class on the part of ongoing UT Dallas students. Only the Dean of Undergraduate Education may admit a high school co-enrolled student to the University.

To request special registration, a prospective student must complete an application for admission and submit a copy of his/her high school transcript, community college transcript, and all standardized test results. In addition, a letter must accompany the application from the student’s high school counselor endorsing the high school student’s enrollment in a particular course. The counselor must also assure the University that the requested mathematics course(s) represent instruction unavailable and/or advanced beyond that offered at the student’s high school and the local community college.

Co-enrollment Registration decisions will be based on the academic credentials of the applicant, including the applicant’s completion of all calculus courses at the student’s local community college, the scholastic rigor of the requested classes, the course prerequisites, and the demand for the class on the part of ongoing UT Dallas students. Only the Dean of Undergraduate Education and/or designees may approve the enrollment of a high school co-enrolled student to the University.

Comment [MV1]: Will become a “stand-alone” policy and relocated to “Other Policies” on http://catalog.utdallas.edu/2015/undergraduate/policies

Comment [MJ2]: Moved down.

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Deleted: co-enrollment
Upon acceptance, the high school student will register as a non-degree seeking student for one semester term.

High school students will not be considered for special registration until they pass all sections of the TSI (Texas Success Initiative) Assessment, or meet one of the following criteria which exempt them from the TSI Assessment requirements:

1. Earn a composite score of 23 or higher on the ACT, with individual math, reading and English scores of no less than 19.

2. Earn a composite score of 1070 or higher on the SAT, with 500 critical reading (formally 'verbal') and 500 math.  

Comment [MV3]: Should this be part of the special registration? Keep per John Jackson, 3-19-15
Student Travel Policy

The University of Texas at Dallas promotes safe travel by students to and from activities or events within the scope of the university's mission. Before traveling, it is beneficial to review the travel policy about domestic and foreign travel, emergency procedures, insurance, and liability; and to obtain authorization by completing travel authorization forms and other related forms at least 5 working days prior to travel. Procedures also apply to faculty, staff, and students who transport students off campus on any university-organized and university-sponsored travel business or related travel activities for student organizations.

Student Travel to International Locations

Students traveling abroad for UT Dallas credit, for an approved Education Abroad program, must follow the Education Abroad approval process for travel prior to departure. For more information: utdallas.edu/ea. Students traveling internationally on University business but not for credit, such as conferences, workshops, sport competitions, etc. must submit an international travel authorization request and obtain institutional authorization prior to departure. For more information: utdallas.edu/rs. With these approvals, the traveller receives coverage in related international insurance plans and access to university international risk and safety services.

Detailed information regarding this policy, in accordance to Texas Education Code, Section 51.950, can be accessed at the UT Dallas Policy Navigator, policy.utdallas.edu/utdbp3023, and at www.utdallas.edu/administration/insurance/travel.
Undergraduate Policies and Procedures

Education Abroad

Information about education abroad opportunities is available at the International Center. Student Services Building (SSB) 3.400. Students are required to satisfy the institutional protocol for international mobility under the guidance of Education Abroad advisors to select the program most appropriate to their individual needs and interests. The advising process includes university policies governing education abroad application, selection procedures, funding sources, international health insurance, emergency procedures, and liability issues, among other aspects. Information is also disseminated through special events, group meetings, individual appointments, reference materials, and at the Education Abroad website (http://www.utdallas.edu/ea/).

Education Abroad Options

Students may participate in the following types of education abroad programs:

1. Study Abroad: Students are registered for study abroad courses at UT Dallas, but pursue the academic program with an organization or institution specialized in designing academic courses for U.S. students in foreign destinations (3rd party programs). Students may select from a variety of 3rd party programs and arrange for transfer of credit to UT Dallas, if applicable. Students are responsible for paying program fees directly to the 3rd party provider, and are not charged UT Dallas tuition for the study abroad course. Students may not apply their Academic Excellence Scholarships toward these programs.

2. Reciprocal Exchange: Students are registered for full time reciprocal exchange courses at UT Dallas, but pursue the academic program at a foreign institution with which UT Dallas has an active reciprocal exchange program agreement. Students may select from a variety of reciprocal exchange institutions and arrange for transfer of credit to UT Dallas. Students are assessed UT Dallas tuition and fees for the reciprocal exchange courses, and may apply their Academic Excellence Scholarships toward these programs.

3. Independent Study: Students are registered for and pursue UT Dallas academic coursework in a foreign destination under UT Dallas faculty supervision and with the approval of the appropriate academic department. Students are assessed UT Dallas tuition and fees for the independent study semester credit hours.

4. Internships: Students are registered for UT Dallas internship coursework to be pursued in a foreign destination under UT Dallas faculty supervision and with approval of the appropriate academic department. Students are assessed UT Dallas tuition and fees for the internship semester credit hours. Students may visit the UT Dallas Career Center for departmental guidelines.

5. Faculty-led Programs: Students register for UT Dallas coursework that includes international components as a part of the UT Dallas curriculum. Students are assessed UT Dallas tuition and fees for the faculty-led course semester credit hours. Additional fees are assessed to cover program costs.

Eligibility and Conditions

Students are subject to the successful satisfaction of UT Dallas’ OIE Protocol according to the deadlines published in OIE web page. Students may pursue international education programs for a maximum of two semesters.
A student must be in academic and disciplinary good standing to participate in study abroad programs, independent studies, or internships. A student must have a minimum of 3.000 GPA to participate in exchange programs. GPA requirements for faculty-led programs are determined by the academic unit offering the program.

Freshmen and lower-division undergraduate transfer students must earn a minimum of 30 semester credit hours at UT Dallas (resident semester credit hours) prior to participating in study abroad programs, exchange programs, independent studies, or internships. Upper-division transfer undergraduate students must successfully complete a minimum of 15 semester credit hours at UT Dallas (resident semester credit hours) prior to participating in study abroad programs, exchange programs, independent studies, or internships.

The 24/30 rule states that students must complete at least 24 of their last 30 semester credit hours at UT Dallas. Students who are within the jurisdiction of the 24/30 rule and plan to graduate must obtain a waiver from the Dean of Undergraduate Education to be eligible for Education Abroad programs. Students may obtain guidance from Education Abroad or their academic advisors to submit their waiver petition to the Dean of Undergraduate Education. Students should provide a copy of the approved 24/30 waiver to Education Abroad.

Additional eligibility requirements may apply based on exchange partner agreements, third party program provider requirements, or other individual program requirements.

Financial Information for Education Abroad

Students may apply for the UT Dallas International Education Fund (IEF) Scholarship to request financial support for education abroad programs. Information about the IEF Scholarship, including eligibility requirements and deadlines, is available at the Education Abroad website (utdallas.edu/eifs/).

Students may consult with the Education Abroad office about additional scholarships. Students may consult with the Office of Financial Aid to determine how participation in education abroad impacts existing financial aid offerings.

Transfer Credit and Graduation

Students request education abroad transfer credit by submitting official transcripts to the UT Dallas Education Abroad office. The Office of the Registrar will review transcripts and determine final application of transfer credit after completion of the classes abroad. Transcripts received from foreign institutions in a language other than English must be translated by a professional translation service for official posting of transfer credit. It is the responsibility of the student to provide an English translation of the transcript and pay any associated costs.

Credits earned through UT Dallas’ independent studies, internships, and/or faculty-led programs are noted on the UT Dallas transcript as UT Dallas coursework. Credits earned through study abroad and reciprocal exchange programs are noted on the UT Dallas transcript as transfer credit, and all UT Dallas transfer credit and graduation policies apply.

International Travel, Policies and Services

Students representing UT Dallas through participation in a UT Dallas Education Abroad program, or for international events such as conferences, workshops, or sports competitions, are required to complete international travel procedures and receive approvals prior to travel. Travel to high risk regions requires review and approval through the UT Dallas International Oversight Committee (IOC). With appropriate approvals, the traveler receives coverage in related international insurance plans, and access to university risk and safety services. The International Center Risk and Safety Office facilitates enrollment in the international health insurance plan, provides risk assessments through the high risk regions tool and world status reports, and provides programs on international risk mitigation through workshops and facilitated conversations with safety experts.

International Risk and Safety is located in the Student Services Building, SSB 3.400. More information can be found at utdallas.edu/rs or by calling 972-883-4189.
Official Transcripts

Transcripts must be mailed to the Office of International Education. Transcripts received from foreign institutions in a language other than English must be translated by a professional translation service for official posting of transfer credit. The use of a professional translation service ensures the authenticity, consistency, and accuracy of transferring credits. It is the responsibility of the student to provide an English translation of the transcript and pay any associated costs. Transcript translation services are not provided by the university.

Programs

The Associate Deans in each school determine how general courses and Core Curriculum courses apply to UT Dallas’ degree plan. Pre-approval may be required by more than one Associate Dean for courses outside the student’s major. All courses must be pre-approved by the Associate Dean from the appropriate academic department, the Office of the Registrar, and the Office of International Education. Ultimately, final application of transfer credit is determined upon receipt of the official transcript submitted after completion of the classes abroad.

Travel Warnings

The University of Texas at Dallas does not recommend nor support study abroad programs in regions of the world for which the U.S. State Department has issued a Travel Warning. Students considering study in regions with Travel Warnings must submit their cases to the Secretary of the UT Dallas Advisory Council on International Education (ACIE). ACIE Director, for further evaluation (www.utdallas.edu/oie/acie.htm). A Travel Warning is the federal government’s recommendation to avoid or consider the risk of travel to a specific foreign destination.

International Education Non-Credit Programs

Undergraduate students representing UT Dallas in an international conference, workshop, sport competition, and/or fully or partially sponsored by UT Dallas, i.e., air ticket, hotel, conference registration, etc., are required to complete the IIE Protocol at least three weeks before departure. For more information, please consult www.utdallas.edu/oie/seo.htm.
Curriculum

Academic Degree Requirements

An undergraduate education at The University of Texas at Dallas is designed with several goals in mind. First, students will acquire a foundation of knowledge to support the development of expertise in the humanities, social sciences, the physical and natural world, and innovative, high-quality science, engineering, and business education and research. Therefore, all students are required to complete a Core Curriculum consisting of 42 semester credit hours. Secondly, students are expected to acquire depth in a field of study. To this end, students must fulfill the major and related requirements of a specified number of semester credit hours for their major. Thirdly, students are encouraged to take courses outside of their major and related field and beyond the Core Curriculum to explore intellectual domains beyond their area of specialization and beyond the core requirements.

In order to graduate with a baccalaureate degree from UT Dallas, students must complete and receive credit for all graduation requirements stated in Graduation Requirements.

Students are responsible for fulfilling their degree requirements and enrolling in courses appropriate to their degree programs. Students should, at the lower division, complete all freshman and sophomore prerequisites for the degree program. These requirements are set by the degree program and are listed under the program heading in the catalog; the number of semester credit hours may vary according to degree program. Certain options may exceed minimum requirements for degree. Students who are Texas residents should be aware that state law limits the number of semester credit hours that an undergraduate Texas resident may complete while paying tuition at the rate provided for Texas residents. The State of Texas limits the number of semester credit hours and course attempts. See additional information in the following policies: Excessive Undergraduate Hours, Dropping and Withdrawing Limitations, and Repeating Course Work.

Field of Study

Per Texas Education Code section 61.823, if a student successfully completes a field of study curriculum approved by The Texas Higher Education Coordinating Board, that block of courses may be transferred to The University of Texas at Dallas and substituted for appropriate lower-division requirements of the appropriate degree. Following receipt of credit for these courses, students may be required to satisfy further requirements in the field of study curriculum for that degree at UT Dallas.

Major and Related Areas of Study

Courses taken to satisfy requirements for the student's major field of study may include major and related courses. Some of these may be outside the courses with the major's designation; such courses are related to the major and required for its satisfaction. Other requirements may be satisfied by courses from lists of guided electives within the major and related courses. Finally, some requirements may be courses preparatory to the major; they are not considered major-core or major-related courses.
Electives

The degree requirements of every major include the opportunity for elective courses, that is, courses exploring subjects not directly related to a student's major.

Minors

Some academic units designate a set of classes that constitute a minor in that academic unit. The requirements of the minor are set by the faculty of the academic unit offering the minor, not by the academic unit of the student's major field of study. When an academic unit offers a minor in a field of study, it is open to all students in the university regardless of school of origin. Students who take a minor will be expected to meet the normal prerequisites in courses making up the minor, and should maintain a minimum GPA of 2.000 on a 4.000 scale (C average) in courses making up the minor. Minors consist of a minimum of 18 semester credit hours, of which at least 12 must be upper-division semester credit hours, although individual academic units may require more semester credit hours at their sole discretion. Semester credit hours may not be used to satisfy both the major and minor requirements; however, elective semester credit hours or major preparatory classes may be used to satisfy the minor. At least one-third of the semester credit hours for a minor must be taken at The University of Texas at Dallas. Students should consult with an advisor in their major field of study as they select and plan minors.
Curriculum

Core Curriculum

The University of Texas at Dallas requires that all students complete a general education Core Curriculum of 42 semester credit hours that serves as a broad foundation for the undergraduate degree. Through the Texas Core Curriculum, students will gain a foundation of knowledge of human cultures and the physical and natural world, develop principles of personal and social responsibility for living in a diverse world, and advance intellectual and practical skills that are essential for all learning in accordance with Texas Administrative Code, chapter 4, Subchapter B, sections 4.28-4.31. These requirements must be met by every student pursuing a baccalaureate degree at The University of Texas at Dallas, regardless of their major. Specific approved courses must be used to satisfy each Core requirement listed in each category. In accordance with the Texas Education Code, Chapter 61, Subchapter S, a student who successfully completes the entirety of a Core Curriculum at another Texas public institution of higher education before matriculating at UT Dallas may transfer that block of courses to UT Dallas where it will be substituted for the UT Dallas Core Curriculum. If a student does not complete all of the Core Curriculum at another Texas public institution of higher education before matriculating at UT Dallas, the student will receive credit for the portion completed and then may be required to complete additional courses from the UT Dallas Core Curriculum.

010 Communication (6 semester credit hours)

Courses in this category focus on developing ideas and expressing them clearly, considering the effect of the message, fostering understanding, and building the skills needed to communicate persuasively. Courses involve the command of oral, aural, written, and visual literacy skills that enable people to exchange messages appropriate to the subject, occasion, and audience.

Critical Thinking (CT)-to include creative thinking, innovation, inquiry, and analysis, evaluation, and synthesis of information

Communication (COM)-to include effective development, interpretation, and expression of ideas through written, oral, and visual communication

Teamwork (TW)-to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

Personal Responsibility (PR)-to include the ability to connect choices, actions, and consequences to ethical decision-making

Courses:

- COMM 1311 Survey of Oral and Technology-based Communication *
- RHET 1302 Rhetoric
- ECS 3390 Professional and Technical Communication
020 Mathematics (3 semester credit hours)

Courses in this category focus on quantitative literacy in logic, patterns, and relationships. Courses involve the understanding of key mathematical concepts and the application of appropriate quantitative tools to everyday experience.

Critical Thinking (CT)-to include creative thinking, innovation, inquiry, and analysis, evaluation, and synthesis of information

Communication (COM)-to include effective development, interpretation, and expression of ideas through written, oral, and visual communication

Empirical and Quantitative Skills (EQS)-to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

Courses:

MATH 1306 College Algebra for the Non-Scientist *
MATH 1314 College Algebra *
MATH 1316 Trigonometry *
MATH 1325 Applied Calculus I *

MATH 2306 Analytic Geometry
MATH 2312 Precalculus *
MATH 2413 Differential Calculus *
MATH 2414 Integral Calculus *
MATH 2415 Calculus of Several Variables *
MATH 2417 Calculus I *
PSY 2317 Statistics for Psychology *
STAT 1342 Statistical Decision Making *
STAT 2332 Introductory Statistics for Life Sciences *

030 Life and Physical Sciences (6 semester credit hours)

Courses in this category focus on describing, explaining, and predicting natural phenomena using the scientific method. Courses involve the understanding of interactions among natural phenomena and the implications of scientific principles on the physical world and on human experiences.

Critical Thinking (CT)-to include creative thinking, innovation, inquiry, and analysis, evaluation, and synthesis of information

Communication (COM)-to include effective development, interpretation, and expression of ideas through written, oral, and visual communication
Empirical and Quantitative Skills (EQS)—to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

Teamwork (TW)—to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

Courses:

- **BIOL 1300** Body Systems with Lab *
- **BIOL 1318** Human Genetics *
- **BIOL 2311** Introduction to Modern Biology I *
- **BIOL 2312** Introduction to Modern Biology II *
- **BIOL 2350** Biological Basis of Health and Disease *
- **CGS 2301** Cognitive Science *
- **CHEM 1311** General Chemistry I *
- **CHEM 1312** General Chemistry II *
- **CHEM 1315** Honors Freshman Chemistry I *
- **CHEM 1316** Honors Freshman Chemistry II *
- **ENVR 2302** The Global Environment *
- **GEOG 2302** The Global Environment *
- **GEOS 1303** Physical Geology *
- **GEOS 1304** History of Earth and Life *
- **GEOS 2302** The Global Environment *
- **GEOS 2310** Environmental Geology *
- **GEOS 2321** Geology, Resources, and Environment of Latin America *
- **GEOS 2332** Age of Dinosaurs *
- **GEOS 2333** Introduction to Fossils *
- **GEOS 2409** Rocks and Minerals *
- **ISIS 2305** Humans: Our Place in Nature
- **ISIS 2308** Bones, Bodies, and Disease
- **ISNS 2359** Earthquakes and Volcanoes *
- **ISNS 2367** The Oceans *
- **ISNS 2368** Weather and Climate *
- **NATS 1311** From the Cosmos to Earth *
- **NATS 2330** The Basis of Evolution *
040 Language, Philosophy and Culture (3 semester credit hours)

Courses in this category focus on how ideas, values, beliefs, and other aspects of culture express and affect human experience. Courses involve the exploration of ideas that foster aesthetic and intellectual creation in order to understand the human condition across cultures.

Critical Thinking (CT)-to include creative thinking, innovation, inquiry, and analysis, evaluation, and synthesis of information

Communication (COM)-to include effective development, interpretation, and expression of ideas through written, oral, and visual communication

Social Responsibility (SR)-to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

Personal Responsibility (PR)-to include the ability to connect choices, actions, and consequences to ethical decision-making

Courses:

AMS 2300 American Popular Culture
AMS 2341 American Studies for the Twenty-First Century
HUMA 1301 Exploration of the Humanities
LIT 2331 Masterpieces of World Literature
PHIL 1301 Introduction to Philosophy
PHIL 2316 History of Philosophy I
PHIL 2317 History of Philosophy II
050 Creative Arts (3 semester credit hours)

Courses in this category focus on the appreciation and analysis of creative artifacts and works of the human imagination. Courses involve the synthesis and interpretation of artistic expression and enable critical, creative, and innovative communication about works of art.

Critical Thinking (CT)-to include creative thinking, innovation, inquiry, and analysis, evaluation, and synthesis of information

Communication (COM)-to include effective development, interpretation, and expression of ideas through written, oral, and visual communication

Teamwork (TW)-to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

Social Responsibility (SR)-to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

Courses:

- **AHST 1303** Survey of Western Art History: Ancient to Medieval
- **AHST 1304** Survey of Western Art History: Renaissance to Modern
- **AHST 2331** Understanding Art
- **ARTS 1301** Exploration of the Arts
- **DANC 1310** Understanding Dance
- **DRAM 1310** Understanding Theater
- **FILM 2332** Understanding Film
- **MUSI 1306** Understanding Music
- **MUSI 2322** Music in Western Civilization

060 American History (6 semester credit hours)

Courses in this category focus on the consideration of past events and ideas relative to the United States, with the option of including Texas History for a portion of this component area. Courses involve the interaction among individuals, communities, states, the nation, and the world, considering how these interactions have contributed to the development of the United States and its global role.

Critical Thinking (CT)-to include creative thinking, innovation, inquiry, and analysis, evaluation, and synthesis of information

Communication (COM)-to include effective development, interpretation, and expression of ideas through written, oral, and visual communication

Social Responsibility (SR)-to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities
Personal Responsibility (PR)-to include the ability to connect choices, actions, and consequences to ethical decision-making will be able to interpret and evaluate the acceptability of historical evidence.

Courses:

- **HIST 1301** U.S. History Survey to Civil War
- **HIST 1302** U.S. History Survey from Civil War
- **HIST 2301** History of Texas
- **HIST 2330** Themes and Ideas in American History
- **HIST 2332** Civil War and Reconstruction

070 Government/Political Science (6 semester credit hours)

Courses in this category focus on consideration of the Constitution of the United States and the constitutions of the states, with special emphasis on that of Texas. Courses involve the analysis of governmental institutions, political behavior, civic engagement, and their political and philosophical foundations.

Critical Thinking (CT)-to include creative thinking, innovation, inquiry, and analysis, evaluation, and synthesis of information

Communication (COM)-to include effective development, interpretation, and expression of ideas through written, oral, and visual communication

Social Responsibility (SR)-to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

Personal Responsibility (PR)-to include the ability to connect choices, actions, and consequences to ethical decision-making

Courses:

- **GOVT 2107** Federal and Texas Constitutions
- **GOVT 2305** American National Government
- **GOVT 2306** State and Local Government

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The University of Texas at Dallas is transitioning its core Government offerings to comply with State of Texas requirements. UT Dallas will be phasing out its Government 2301 and 2302 sequence. UT Dallas has added the Government 2305 and 2306 sequence. To assist students with the transition UT Dallas will temporarily teach both sets of Government offerings through the spring 2015 semester. The 2301 and 2302 sequence is now only open to students who have taken one or the other of 2301 and 2302. Students who have not taken any government course should only take the 2305 and 2306 sequence. After the spring 2015 semester UT Dallas will only teach 2305 and 2306. Students should follow the below guidelines when selecting a Government course:
I have not taken any Government (GOVT) courses:

• Take GOVT 2305 and GOVT 2306

I have taken GOVT 2305:

• Take GOVT 2306

I have taken GOVT 2306:

• Take GOVT 2305

I have taken GOVT 2301:

• Take GOVT 2302 or GOVT 2305 or GOVT 2306

I have taken GOVT 2302:

• Take GOVT 2301 no later than the spring 2015 semester
  • Otherwise you must take both GOVT 2305 and GOVT 2306

080 Social and Behavioral Sciences (3 semester credit hours)

Courses in this category focus on the application of empirical and scientific methods that contribute to the understanding of what makes us human. Courses involve the exploration of behavior and interactions among individuals, groups, institutions, and events, examining their impact on the individual, society, and culture.

Critical Thinking (CT)-to include creative thinking, innovation, inquiry, and analysis, evaluation, and synthesis of information

Communication (COM)-to include effective development, interpretation, and expression of ideas through written, oral, and visual communication

Empirical and Quantitative Skills (EQS)-to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

Social Responsibility (SR)-to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

Courses:

- CLDP 2314 Lifespan Development
- CRIM 1301 Introduction to Criminal Justice
- CRIM 1307 Introduction to Crime and Criminology
- ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
ECS 3361 Social Issues and Ethics in Computer Science and Engineering
GEOG 2303 People and Place: An Introduction to World Geographic Regions
GST 2300 Introduction to Gender Studies
PA 2325 Introduction to Public Service
PSY 2301 Introduction to Psychology
PSY 2314 Lifespan Development
SOC 1301 Introduction to Sociology
SOC 2300 Introduction to Gender Studies
SOC 2320 Contemporary Social Issues

090 Component Area Option (6 semester credit hours)

1. A minimum of 3 semester credit hours must meet the definition and corresponding Core Objectives specified in one of the foundational component areas.

2. As an option for up to 3 semester credit hours of the Component Area Option, an institution may select course(s) that:
   1. Meet(s) the definition specified for one or more of the foundational component areas; and
   2. Include(s) a minimum of three Core Objectives, including Critical Thinking Skills, Communication Skills, and one of the remaining Core Objectives.

   i. Critical Thinking (CT) - to include creative thinking, innovation, inquiry, and analysis, evaluation, and synthesis of information
   ii. Communication (COM) - to include effective development, interpretation, and expression of ideas through written, oral, and visual communication
   iii. Option of Empirical and Quantitative Skills, Teamwork, Social Responsibility, or Personal Responsibility

Courses:

ARHM 2340 Creativity
ARHM 2341 Global Media
ARHM 2342 Connections in the Arts and Humanities
ARHM 2343 Science and the Humanities
ARHM 2344 World Cultures
EPPS 2301 Research Design in the Social and Policy Sciences
EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Sciences
EPPS 2303 Descriptive and Inferential Statistics for the Social and Policy Sciences
Additionally, courses marked with an asterisk in the various core categories listed above could be offered as Component Area Option courses.
Curriculum

Core Curriculum Transition

Students who have been enrolled in their field of study prior to fall 2014 will follow their core curriculum established for their program. Students have up to two academic years through summer 2016 to complete their core curriculum requirements. Students are encouraged to receive assistance from their advisors.

The following courses may be made available as core during the transition period through summer 2016. Students will not receive credit for taking two courses, similar in content. Students entering their degree programs in fall 2014 or in later semesters will not be allowed to take these courses to fulfill core requirements.

Communications (Chart 010)

- ATEC 3320 Digital Content Design and Usability
- ATEC 3325 Introduction to Computer Mediated Communication
- BCOM 3311 Business Communication
- BIS 3320 The Nature of Intellectual Inquiry
- BIOL 4337 Seminal Papers in Biology
- BIOL 4390 Senior Readings in Molecular and Cell Biology: Advanced Writing
- BIOL 4391 Senior Research in Molecular and Cell Biology: Advanced Writing
- BIOL 4398 Senior Honors Readings in Molecular and Cell Biology: Thesis/Advanced Writing
- BIOL 4399 Senior Honors Research in Molecular and Cell Biology: Thesis/Advanced Writing
- CGS 3340 Experimental Projects in Cognitive Science
- CHEM 4390 Research and Advanced Writing in Chemistry
- CHEM 4399 Research and Advanced Writing in Chemistry for Honors Students
- CLDP 3494 Research and Evaluation Methods
- COMM 3300 Reading Media Critically
- CRIM 3300 Crime and Civil Liberties
- ECON 3330 Economics of Health
- ECON 4332 Energy and Natural Resources Economics
- ECON 4382 International Finance
- GEOG 3377 Urban Planning and Policy (cross-listed with PA 3377)
- GEOS 4390 Senior Research and Advanced Writing Communication in the Geosciences
- GEOS 4399 Senior Honors in Geosciences
HUMA 3300 Reading and Writing Texts
MATH 4390 Senior Research and Advanced Writing
MATH 4399 Senior Honors in Mathematics
NATS 4310 Advanced Writing in the Natural Sciences and Mathematics
NATS 4390 Research Methods
NSC 4353 Neuroscience Laboratory Methods
PA 3310 Public Administration Management (cross-listed with PSCI 3310)
PA 3377 Urban Planning and Policy (cross-listed with GEOG 3377)
PHYS 4390 Senior Research
PHYS 4399 Senior Honors Research in Physics
PSCI 3310 Public Administration Management (cross-listed with PA 3310)
PSCI 3325 American Public Policy
PSCI 4307 Predicting Politics
PSCI 4360 The Political Economy of Multinational Corporations
PSY 3393 Experimental Projects in Psychology
SOC 3306 Advanced Research and Writing for the Policy Sciences
SPAU 3390 Clinical Practicum in Speech-Language Pathology

Mathematics (Chart 020)
EPPS 3405 Introduction to Social Statistics with Lab
STAT 3332 Statistics for Life Sciences

Natural Science (Chart 030)
BIOL 2281 Introductory Biology Laboratory
BIOL 3318 Forensic Biology
CE 1202 Introduction to Electrical Engineering II (cross-listed with EE 1202 and TE 1202)
CHEM 1111 General Chemistry Laboratory I
CHEM 1112 General Chemistry Laboratory II
CHEM 1115 Honors Freshman Chemistry Laboratory I
CHEM 1116 Honors Freshman Chemistry Laboratory II
EE 1202 Introduction to Electrical Engineering II (cross-listed with CE 1202 and TE 1202)
GEOS 1103 Physical Geology Laboratory
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS 1104</td>
<td>History of Earth and Life Laboratory</td>
</tr>
<tr>
<td>ISNS 3371</td>
<td>The Phenomena of Nature: Forces, Gases, Motion, Heat, Light and Electricity</td>
</tr>
<tr>
<td>ISNS 3373</td>
<td>Our Nearest Neighbors in the Sky</td>
</tr>
<tr>
<td>NSC 3344</td>
<td>Anatomy and Physiology of Speech and Hearing (cross-listed with SPAU 3344)</td>
</tr>
<tr>
<td>NSC 3361</td>
<td>Behavioral Neuroscience</td>
</tr>
<tr>
<td>NSC 4352</td>
<td>Cellular Neuroscience</td>
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<tr>
<td>NSC 4354</td>
<td>Integrative Neuroscience</td>
</tr>
<tr>
<td>PHYS 1101</td>
<td>College Physics Laboratory I</td>
</tr>
<tr>
<td>PHYS 1102</td>
<td>College Physics Laboratory II</td>
</tr>
<tr>
<td>PHYS 2126</td>
<td>Physics Laboratory II</td>
</tr>
<tr>
<td>SPAU 3344</td>
<td>Anatomy and Physiology of Speech and Hearing (cross-listed with NSC 3344)</td>
</tr>
<tr>
<td>TE 1202</td>
<td>Introduction to Electrical Engineering II (cross-listed with CE 1202 and EE 1202)</td>
</tr>
</tbody>
</table>

**Humanities (Chart 040)**

- ARAB 2312 Intermediate Arabic II
- CHIN 2312 Intermediate Chinese II
- FREN 2312 Intermediate French II
- GERM 2312 Intermediate German II
- JAPN 2312 Intermediate Japanese II
- SPAN 2312 Intermediate Spanish II

**Fine Arts (Chart 050)**

- MUSI 2322 Music in Western Civilization

No transitional core courses are available in this category.

**American and Texas History (Chart 060)**

- HIST 2331 Issues in American History

**Government (Chart 070)**

- GOVT 2301 Constitutional Foundations and Political Behavior in the U.S. and Texas
- GOVT 2302 Political Institutions in the U.S. and Texas

No transitional core courses are available in this category.
Social and Behavioral Science (Chart 080)

- GEOG 3370 The Global Economy
- ISIS 3338 Native American Cultures
- PSY 3331 Social Psychology

Updated: September 29, 2014 - Visitor: 672
Degree Programs

Honors Programs

Collegium V

Collegium V is a four-year, interdisciplinary honors program available to students in all majors. This selective academic program encourages intellectually creative, inquisitive, and highly motivated students to extend their educational experience beyond the scope of the traditional undergraduate curriculum. Students benefit from the small classes, innovative instruction, world-class faculty, and bright, inquisitive colleagues. Collegium V coursework overlaps with standard degree requirements and is designed to be completed on schedule.

Membership in Collegium V is limited. Interested students must apply directly to the program at:

Collegium V
The University of Texas at Dallas
800 West Campbell - oad - GC 10
Richardson T - 75080-3021
972-883-4297
collegiumv@utdallas.edu

Honors in the Major

Each school offers qualified students the opportunity to participate in an honors program within the school's discipline. Each program may provide two levels of recognition, Honors and Distinction. All students must have completed a minimum of 30 graded semester credit hours to qualify for major honors. The requirements for major honor's recognition vary across schools. Students should review the descriptions within the school section of the catalog.

Updated: September 29, 2014 - Visitor: 358
Tuition and Financial Aid

About Tuition and Financial Aid

As a state supported institution of higher education, The University of Texas at Dallas is required to comply with all state laws and approval by the UT System Board of Regents in the assessment and collection of tuition, fees, and deposits. The tuition, fees, and deposits listed herein are subject to change by legislative or regental action and changes become effective on the date enacted. Pursuant to Chapter 54, Texas Education Code, each student who registers is required to pay tuition and fees appropriate to the student's residence classification and according to the number of semester credit hours for which he or she has registered.

In accordance with state laws, a student is not entitled to enter a class or laboratory until registered and all tuition, fees, and deposits have been paid.

The University of Texas at Dallas utilizes a consolidated tuition rate, which is capped at 15 semester credit hours for all students. The consolidated tuition and fee rates cover all academic program costs, including tuition, mandatory fees, and most of the college and course incidental fees. Additional fees that will be charged separately are: field trip fees, supplemental designated tuition fees and distance education fees. The Tuition and Fee Tables can be found on the Bursar Office website.

Residency Classification for Tuition Purposes

Residency classification for tuition purposes at Texas colleges or universities is in accordance with Title 19, Part 1, Chapter 21, Subchapter B of the Texas Administrative Code and the rules of the Texas Higher Education Coordinating Board for determining residence status. A person classified as a nonresident for tuition purposes may qualify, under certain exceptions specified in the rules, for resident tuition rates and other charges, while he or she continues to be classified as a nonresident for tuition purposes. Please consult these websites concerning residency classification for tuition purposes provided by the State are Texas Administrative Code website and www.collegeforalltexans.com. Please consult The University of Texas at Dallas' website for residency information and procedures, www.utdallas.edu/residency.

It is the student's responsibility to establish, prior to registration, the correct residence classification through the Office of the Registrar. Likewise, any student wishing to request a change of residence status for tuition purposes should do so through the Office of the Registrar. This will require completion of a residency questionnaire and the provision of documents to support the claim of Texas residency. Rules and regulations for determining residency, or for obtaining a waiver to pay resident tuition even if one is a non-resident, are found at www.utdallas.edu/residency. Final authority of appeal for review of residence decisions rests with the Office of the Registrar.

For residents of Oklahoma, tuition is the Texas resident rate shown plus thirty dollars ($30.00) per semester credit hour. Oklahoma residents must apply for this tuition waiver each semester through the Office of Financial Aid.
Guaranteed Tuition Plan

Beginning fall 2007, The University of Texas at Dallas introduced the Guaranteed Tuition Plan. The Guaranteed Tuition Plan is designed to help new students and their families better plan for the cost of a college education, while allowing the university to maintain the quality of its academic programs. Under the terms of the plan, undergraduate students enrolling at UT Dallas for the first time for the fall 2015, spring 2016 and summer 2016 semesters are charged for tuition and mandatory fees fixed at the fall 2015 rates for all succeeding semesters through the summer of 2019. The charges per semester credit hour for tuition and mandatory fees at UT Dallas depend on the number of semester credit hours for which a student enrolls. Other user fees for courses and services including, for example, parking, and housing fees, are subject to change. More information on the Guaranteed Tuition Plan can be found at www.utdallas.edu/tuition.

In the event a student is unable to complete their degree requirements in four years, that student will be advanced to the subsequent Guaranteed Tuition rate. Students enrolling after three consecutive semesters have elapsed will be placed in the Guaranteed Tuition Rate plan applicable to all new incoming students.

Students who graduate from UT Dallas before their rate plan expires may retain their current Guaranteed Tuition Rate as a graduate student. Additionally, if the student maintains consecutive enrollment and reaches the end of their Guaranteed Tuition Rate period, they will be moved to the next subsequent Guaranteed Tuition Rate plan. Students enrolling after three consecutive semesters have elapsed will be placed in the Guaranteed Tuition Rate plan applicable to all new incoming students.

Tuition Installment Payments

Students may elect an installment plan to pay tuition and fees for the full term fall, spring, and eleven week summer semesters. The installment payment plan, authorized under Section 54.007, Texas Education Code, allows the student to pay their tuition and fee balance in three equal payments. A $25.00 fee per semester will be assessed each student who elects to pay by installments. Additionally, a late payment fee of $30.00 for delinquent payment will be assessed each time an installment is not paid by the date it is due. If the installment is not paid in full by the third due date, it begins accruing interest at the rate of 10% per year until it is paid in full.

Nonpayment of Debt

Students must pay by the published deadline to avoid late fees and/or possible dropping of classes. Students should NOT expect classes to be automatically dropped for nonpayment. Please be advised it is the student's responsibility to confirm that he/she has been dropped from all classes for nonpayment to avoid being assessed late fees or penalties.
Students who have not paid in full or enrolled in a payment plan by the posted payment deadline may have their registration cancelled. If a student’s registration is canceled for nonpayment, and that student wishes to reinstate registration, a reinstatement fee in addition to any late fees and tuition and fees will be charged. See the online fee schedules at [http://www.utdallas.edu/bursar/ tuition/fees](http://www.utdallas.edu/bursar/tuition/fees) for fees associated with course reinstatement. No student will be reinstated in a closed course.

A student who fails to provide full payment of loans, tuition, and fees, including late fees assessed, to the university when the payments are due is subject to one or more of the following actions at the university’s option:

- Classes may be cancelled;
- Bar against registration and/or readmission to the institution;
- Withholding of grades, diploma, and official transcript; and
- All penalties and collection actions authorized by law.

Students may refer to the [Academic Calendar](http://www.utdallas.edu/student/calendars) or the [Tuition and Fees Schedule](http://www.utdallas.edu/bursar/fees) for information regarding payment and refund deadlines.

### Tuition and Fee Exemptions/Waivers

As a state-sponsored institution of higher education in Texas, The University of Texas at Dallas is authorized to award tuition and fee exemptions and/or waivers to students who qualify based on statutory criteria. Effective Fall 2014, in order to continue to qualify for many of the tuition and fee exemptions or waivers, students must maintain a minimum grade point average at The University of Texas at Dallas. In addition, in order to continue to qualify for most tuition and fee exemptions, undergraduate students must meet the state’s [excessive hours rule as defined in Section 54.014 of the Texas Education Code](http://www.utdallas.edu/student/finaid/SAP.htm). See [http://www.utdallas.edu/student/finaid/SAP.htm](http://www.utdallas.edu/student/finaid/SAP.htm) for details regarding the satisfactory academic progress criteria and policies.

The following list of exemptions and waivers may be available to UT Dallas students:

- Academic Common Market Waiver
- Adopted Students Formerly in Foster or Other Residential Care
- Blind/Deaf Student Exemption
- Bordering States Waiver
- Children of Disabled or Deceased Firemen, Peace Officers, Game Wardens, and Employees of Correctional Institutions
- Children of U.S. Military who are Missing in Action or Prisoners of War (MIA/POWs)
- Competitive Scholarship Waiver
- Concurrent Enrollment Waiver
- Distance Learning or Off-Campus Courses
• Economic Development and Diversification Waiver
• Exemption for Highest Ranking High School Graduate
• Exemption for Peace Officers Disabled in the Line of Duty
• Exemption for Peace Officers Enrolled in Law Enforcement or Criminal Justice Courses
• Exemption for Students under Conservatorship of the Department of Family and Protective Services
• Exemption for the Surviving Spouse and Minor Children of Certain Deceased Public Servants
• Exemption Program for Clinical Preceptors and Their Children
• Firefighters Enrolled in Fire Science Courses
• Good Neighbor Program
• Hazelwood Exemption
• Mexican Citizens with Financial Need-Border Nations Waiver
• Military After Assignment in Texas
• Military Assigned to Duty in Texas
• Military Honorably Discharged, Separated or Retired Veterans who Move to Texas
• Military: Member, Spouse or Child who Remains Continuously Enrolled in Higher Education in Texas
• Military: NATO Forces
• Military Personnel and Dependents
• Military Persons Eligible for Veterans Educational Benefits, Their Spouses and Children who Move to Texas
• Military Spouse and Dependents who Previously Lived in Texas
• Military Survivors
• Research Assistants and Teaching Assistants Waiver
• Senior Citizen, 65 or Older, Free Tuition for Auditing Classes and 6 semester credit hours
• Waiver for College Faculty and their Dependents

For additional information regarding exemptions/waivers, see the Texas Education Code, 54.201 et seq. at http://www.statutes.legis.state.tx.us/Docs/ED/htm/ED.54.htm#54.201 and College for All Texans website, http://www.collegeforalltexas.com/apps/financialaid/tofa.cfm?Kind=E. Individuals who feel they may qualify under this section are requested to contact the Office of Financial Aid at 972-883-2941.

1. Exemptions and waivers are awarded at the discretion of the university. Exemptions and waivers are granted based on eligibility, availability, and supporting documentation submitted.
2. Entering undergraduate students who are the highest ranking graduated of accredited Texas high schools.
3. Military personnel under the Post 9/11 Veterans Educational Assistance Act of 2008 may be entitled to pay tuition and fees at an institution of higher education at the rates provided for Texas residents without regard to the length of time the person has resided in this state if the person files with the institution at which the person intends to register a letter of intent to establish residence in this state and resides in this state while enrolled in the institution.
Tuition Tables

Tuition and fees are subject to change by legislative action. Changes in tuition or fees will be effective upon date of enactment and will be reflected in fees and tuition charged. Specific tuition and fees for each term can be found at www.utdallas.edu/bursar/tuition/tables.

Please note that the Texas Legislature does not set the specific amount for any particular student fee. The student fees assessed above are authorized by the state statute; however, the specific fee amounts and the determination to increase fees are made by the university administration and The University of Texas System Board of Regents. Students taking courses in the School of Behavioral and Brain Sciences may be required to purchase professional liability insurance if they are in certain clinical experiences.

Students will be given notice on their tuition bill, tuition receipt or an email in connection with tuition charges, of the amount of his/her tuition payment that is required to be set aside to provide financial assistance for students enrolled at the institution per the Texas Education Code, Section 56.014.

Undergraduate Students

Comet Connection

Those who begin their college careers at a community college will also be able to take advantage of UT Dallas’ Guaranteed Tuition Plan under a program called the Comet Connection. As Comet Connection members, students can lock in their tuition rate. Students may contact UT Dallas’ Office of Admission and Enrollment Services Advisors at 972-883-2270 or go to www.utdallas.edu/connect for more information.

Freshman Exemption

The highest-ranking graduate of any accredited high school in Texas is entitled to a tuition exemption. The exemption pays tuition for a period of two long semesters of academic work. Eligible students must present the Texas Education Agency eligibility certificate or a letter from the student’s high school principal or superintendent, to the Office of Financial Aid in order to claim the exemption.

Rebate of Tuition for Timely Graduation

Section 54.0065 of the Texas Education Code authorizes a tuition rebate of $1,000 for certain students who are receiving their first bachelor’s degree from a public institution in Texas. Students may be eligible if they enrolled for the first time in an institution of higher education in the fall 1997 semester or later, are Texas residents, have been eligible for resident tuition in Texas at all times while pursuing their bachelor’s degree, and have attempted no more than three semester credit hours in excess of the minimum number required to complete the degree under the catalog under which he/she is graduating may be eligible. Students who enrolled for the first time at UT Dallas or any other institution of higher education in or after fall 2005 must also graduate within four calendar years of their first enrollment in order to qualify.

Attempted semester credit hours include all earned semester credit hours, unearned semester credit hours
Students must submit an application for the rebate to the Office of the Registrar by the last day of class for the semester he/she plans to graduate. Students will receive an official notification of their approval or denial within 4 weeks of their graduation. Students who qualify and have loans with the State of Texas will have the rebate applied toward their outstanding loan debt. All other approved students will receive a rebate check via mail. Students wishing additional information about the Texas Tuition Rebate should visit the following website http://www.utdallas.edu/student/registrar/forms/tuitionrebate.pdf.
Tuition and Financial Aid

Excessive Undergraduate Hours

Section 54.014, *Texas Education Code*, authorizes Texas public institutions of higher education to charge resident undergraduate students at a higher rate not to exceed the non-resident tuition rate if they exceed the maximum number of semester credit hours attempted to complete their degree programs. Attempted semester credit hours include all semester credit hours taken at a Texas public institution of higher education for which a student was registered as of Census Day, including, but not limited to, courses that have been repeated, failed, and courses from which the student withdrew.

Undergraduate resident students who enrolled for the first time in fall 1999 through summer 2006, the maximum is 45 semester credit hours beyond the minimum number of semester credit hours required for completion of the degree program in which the student is enrolled, or 120 semester credit hours for a student who is not enrolled in a degree program.

Undergraduate resident students who enrolled for the first time in fall 2006 and subsequent semesters, the maximum is 30 semester credit hours beyond the minimum number of semester credit hours required for completion of the degree program in which the student is enrolled, or 120 semester credit hours for a student who is not enrolled in a degree program.

Undergraduate Texas resident students who exceed the maximum semester credit hours towards completion of the primary degree program will be charged the non-resident tuition rate. Students already holding one baccalaureate degree are exempt from the non-resident tuition rate or the maximum number of semester credit hours when enrolled in a second baccalaureate degree program.

Students may be exempted from the payment of the excessive semester credit hours charge if the payment of the non-resident tuition rate would result in an economic hardship for the student. A student with an economic hardship is defined as someone who, at the time of registration, is documented with the Office of Financial Aid as being eligible for a Federal Pell Grant, regardless of whether they actually receive the funding due to enrollment status, non-satisfactory academic progress, or other reasons. Students seeking an exemption are encouraged to contact the Office of the Registrar to verify eligibility prior to Census Day for the term. Excessive tuition charges will not be removed retroactively.

For more information regarding excessive semester credit hours, please visit the Office of the Registrar’s website.

Comment [MJ1]: Need to update URL. Current web link pointing to Registrar’s Office FAQ. It should go to this policy at: http://www.utdallas.edu/registrar/legislative-policies/excessive-hours/
Tuition and Financial Aid

Refund of Tuition and Fees

It is the student's responsibility to know and understand the state mandated refund policy. Upon notification from the Office of the Registrar of official withdrawal, the Bursar Office shall reimburse the applicable portion of tuition and fees (unless otherwise noted) in accordance with the following schedule:

If the student withdraws during a fall or spring semester or a summer term of 10 weeks or longer:

• Prior to the first class day of a given semester, 100 percent reimbursement
• During the first five class days, 80 percent of the applicable portion of the tuition and applicable fees reimbursement
• During the second five class days, 70 percent reimbursement
• During the third five class days, 50 percent reimbursement
• During the fourth five class days, 25 percent reimbursement
• After the fourth five class days, no reimbursement

If the student withdraws during a term or session of more than five weeks but less than 10 weeks (five- and eight-week summer sessions):

• Prior to the first class day of a given term, 100 percent reimbursement
• During the first, second, and third class day, 80 percent reimbursement
• During the fourth, fifth, and sixth class day, 50 percent reimbursement
• Seventh class day and thereafter, no reimbursement

Separate withdrawal refund schedules may be established for other fees and charges. Refer to the "Other User Fees for Courses and Services" section at catalog.utdallas.edu/2015/undergraduate/tuition-and-financial-aid/other-fees for refund information.

Cash refunds will not be made to students. Refund checks will be mailed to the student's address listed on their Student Center's account in Galaxy (Orion Self Service) three business days after the refund is requested unless the student has opted for direct deposit through EZPAY. Direct deposit refunds are normally available 3 to 5 business days from the date they were requested.

All policies regarding the payment or refunding of tuition, fees, and charges are approved by the Board of Regents of The University of Texas System and are in compliance with the Texas Education Code, Section 54.006 of the Texas Statutes. If a person desires clarification of any matter relating to payment or refund of such charges, he or she should contact the office or administrative unit from which the charge or refund originated.
Refunding Students in Title IV Programs

As an institution participating in programs under Title IV of the Higher Education Act of 1965 as amended ("Act"), The University of Texas at Dallas is required to refund unearned tuition, fees, room and board, and other charges to certain students attending who have received a grant, a loan, or work assistance under Title IV of the Act, or whose parents have received a loan on their behalf under 20 U.S.C. Section 1087-2. The refund is required if the student does not register for, withdraws from, or otherwise fails to complete the period of enrollment for which the financial assistance was intended. No refund is required if the student withdraws after a point in time that is sixty percent of the period of enrollment for which the charges were assessed. A student who withdraws prior to that time is entitled to a refund of tuition, fees, room and board, and other charges that is the larger of the amount provided for in Section 54.006, Texas Education Code, or a pro rata refund calculated pursuant to Section 484B of the Act, reduced by the amount of any unpaid charges and a reasonable administrative fee not to exceed the lesser of five percent of the tuition, fees, room and board, and other charges that were assessed for the enrollment period, or one hundred dollars. If the student's charges were paid by Title IV funds, a portion or all of the refund will be returned to these programs.
Tuition and Financial Aid

Other User Fees for Courses and Services*

* The following information is not intended to be comprehensive and is subject to change. Tuition and fees are subject to change by legislative or regental action, and changes become effective on the date of enactment. The Texas Legislature does not set the specific amount for any particular student fee. The student fees assessed below are authorized by state statute; however, the specific fee amounts and the determination to increase fees are made by the university administration and The University of Texas System Board of Regents. Fees can be found on the Bursar Office website for each term.

Application Fee: A nonrefundable application fee of $50.00 is required of all students applying for admission to The University of Texas at Dallas during the regular application period. If a student submits an application after the application deadline but prior to the documentation deadline, the application fee is $125.00 in order to process the application for a decision in time to register for classes. An additional $50.00 international document evaluation fee is required for those who have educational documents from countries other than the United States. Please refer to the Office of Admission and Enrollment Services website for application deadlines.

Application Fee for Study Abroad: Students applying to study abroad will be charged a $75.00 application fee.

Audit Fee: Students at The University of Texas at Dallas may, with the approval of the instructor and of the Office of the Registrar, audit courses. Auditing grants only the privilege of hearing and observing and does not grant credit. When approval has been granted, the applicant pays a fee of $100.00 per course. A student may withdraw from an audit course, but the fee will not be refunded. Persons 65 or over are permitted to audit without paying a fee. They must, however, qualify otherwise (see “Auditing Courses” at catalog.utdallas.edu/2015/undergraduate/policies/course-policies#auditing), complete the audit form, and have the consent of the instructor. Audit registration is permitted only during the late registration period of each semester or term.

Change of Major Fee: There is a $50.00 fee for students changing majors more than two times in an academic career. Exception: There is no charge to move from the "undeclared major" category. See “Change of Major” located at catalog.utdallas.edu/2015/undergraduate/policies/degree-plans#change-major.

Collin Higher Education Center Fee: Courses offered at Collin Higher Education Center are charged a $80.00 fee per semester credit hour.

Comet Camp Fee: Courses offered at Collin Higher Education Center are charged a $80.00 fee per semester credit hour.

Diploma Replacement or Duplicate Fee: A $10.00 fee is required to defray the costs of materials, food, and field trip for freshmen who attend Comet Camp.

Distance Learning Fee: A fee per semester credit hour to enroll in distance education courses offered over the Internet. Please check the online fee schedules at www.utdallas.edu/bursar/tuition/tables for fees rate. The rate varies based on the specific tuition plan.
Emergency Transcript (same day): A $10.00 processing fee in addition to the Transcript Request Fee for expedited service of the official transcript.

Excessive Hours Fee: Section 54.014, Texas Education Code, authorizes Texas public institutions of higher education to charge resident undergraduate students at a higher rate not to exceed the non-resident tuition rate if they exceed the maximum number of semester credit hours attempted to complete their degree programs. Students who exceed their limit will be charged the non-resident tuition rate.

Field Trip Fee: This fee is assessed to cover the costs of transportation, food, and/or lodging associated with a field trip. The amount of the fee varies depending on the destination and duration of the field trip. Every effort will be made to advise students of the field trip costs associated with a particular course at the time of registration, and the appropriate fee will be assessed at that time. Refund provisions do not apply to this fee.

In Absentia Registration Fee: A student who registers in absentia shall pay a nonrefundable/nontransferable registration fee of $100.00. (See definition of in absentia at catalog.utdallas.edu/2015/undergraduate/policies/registration#inabsentia).

Installment Payment Plan Fee: A $25.00 fee to cover the costs of providing a payment option for students in full term fall or spring semester courses. The plan is also available for students enrolled in the 11-week summer semester.

Installment Plan Late Fee: A late payment fee of $30.00 for delinquent payment will be assessed if the second or third tuition installment is not paid by the published due date. In the event of non-payment, the total amount due shall accrue interest from the third payment deadline at the rate of ten percent (10%) per year until the note is paid in full.

Institutional Loan Delinquency Fee: A late charge of $30.00 per month ($90.00 maximum per note) will be assessed to students who do not repay their loans in accordance with the terms of the note.

Institutional Loan Origination Fee: A loan origination/administration fee of 1.25% of the total loan balance will be assessed and must be paid by the due date.

International Student Special Services Fee: The International Student Special Services Fee supports the ongoing success of non-immigrant students enrolled at UT Dallas. This fee supports the programs and services of the International Student Services Office (ISSO), including: immigration advising, certification of immigration benefits, cultural/social events, and educational/transitional programs. In addition, the fee supports federal reporting and certification of international student data in accord with federal regulations.

The mandatory $100.00 International Student Special Services fee is assessed at the time of registration each semester. Immigrant categories that are fee-exempt include: U.S. citizen, U.S. Permanent Resident, Temporary Protected Status, Refugee, Asylee, Public Interest Parolee, Temporary Residence-Amnesty, and undocumented aliens. Any student whose status changes officially to one of the exempt classifications is required to submit proof of that change to the UT Dallas Registrar’s Office and International Student Services Office, and will not, subsequently, be assessed the fee. If the appropriate documentation is submitted prior to Census Day of a semester, the fee for that semester will be refunded based on the tuition refund schedule as published in the UT Dallas Academic Calendar.

Late Course Add Fee: A $100.00 per course fee is assessed when a registered student adds a course after Census Day.
Late Graduation Fee: A $100.00 nonrefundable, non-transferable fee is assessed when an approved application for graduation is received after the deadline.

Late Registration (Payment) Fee: A nonrefundable charge of $100.00 with additional increments of $50.00 based on the number of days past the regular registration/payment deadline is required to defray costs associated with extending registration times.

Library Fines and Charges: Fines and fees for overdue library items are available at the Eugene McDermott Library's circulation policies: [www.utdallas.edu/library/about/policies/circpolicy.html](http://www.utdallas.edu/library/about/policies/circpolicy.html). Copies of the fine schedule can also be obtained at the McDermott Library Circulation/Reserve Desk.

Orientation Fees: Students attending Freshman Orientation will be charged $100.00. Transfer students will be charged the Transfer Student Orientation Fee of $25.00. International students will be assessed the International Student Orientation Fee of $50.00.

Parking Fees: A parking permit is required to park any motorized vehicle on campus. Any vehicle parked on campus that does not display a current parking permit will be subject to a parking citation. In compliance with the Texas Education Code 51.207 (b), The University of Texas at Dallas has procedures for enforcing State of Texas vehicle inspection laws for vehicles parking or driving on the campus of the institution. The law is as follows:

51.207 (b) This subsection applies only to a public institution of higher education campus that is located in whole or part in an area in which a motor vehicle registered in the area is required to undergo a vehicle emissions inspection under Subchapter F, Chapter 548, Transportation Code. The institution may not issue a permit to a student enrolled at the institution to park or drive a motor vehicle that is not registered in this state on institutional property unless the institution has provided written notice to the student concerning requirements for vehicle emissions inspections pursuant to Subchapter F, Chapter 548, Transportation Code.

Information regarding parking regulations and permit fees may be found at the Parking and Transportation website under permits at [www.utdallas.edu/parking/regulations.html](http://www.utdallas.edu/parking/regulations.html) or [www.utdallas.edu/parking/permits.html](http://www.utdallas.edu/parking/permits.html). Students may purchase the following permits online through the UT Dallas Online Store and mailed to the shipping address provided or purchase them in person at the Bursar Office:

- **E-Parking:** Allows students to park in extended parking spaces in lots A and B only. **Parking allowed in lot U before 4:30PM**
- **Green:** Allows students to park in campus green and extended parking spaces.
- **Gold:** Allows students to park in campus gold, green, or extended parking spaces.
- **Evening Orange:** Allows students to park in orange marked spaces after 5 p.m. or gold, green, and extended parking spaces anytime.
- **Housing Only:** A parking permit is required for all residents of the University Village apartments. Allows students to park in residential lots or green parking at WSTC, ROC, and Callier-Dallas only.

**Note:** Only one housing permit may be sold per student residing in the on campus apartments or resident hall. Housing permits are nonrefundable.

Parking permits are purchased for the academic year and are refundable on a prorated basis with the exception of the housing only permit.

Parking is free for disabled veterans that have a state handicap placard and/or plates in accordance with

Texas Education Code, section 681.008. The disabled veterans must register with Parking and Transportation Services to receive a UT Dallas handicap parking permit and may park in any parking space on campus that is not Reserved. A UT Dallas handicap parking permit is necessary to park in handicap designated spaces.

The Dallas Area Rapid Transit System (DART) provides bus service to the campus from the Richardson transfer terminal. Contact DART for schedule information. Students are eligible for a free transit pass from DART, which is available through the Comet Center, located on the second floor of the Student Union.

**Participation Fee for Study Abroad:** Students participating in a study abroad program will be charged a $250 fee to cover student services and insurance.

**Physical Instruction Fee:** A $25.00 per course fee will be charged for all Physical Instruction (PHIN) courses.

**Practical Training Fee:** A $100.00 per practical training application fee is charged to assist in funding the administrative and clerical expenses required to review records and process the forms required by the United States Citizenship and Immigration Service to certify international students for placement in curricular or optional practical training assignments.

**Recreational Sports Group Exercise / Non-credit Course Fee:** A group exercise pass can be purchased for $50.00 granting access to all group exercise classes for the semester. Non-credit courses are $50.00 for each individual class a student chooses to participate in.

**Recreational Sports Locker Rental Fee:** An optional locker rental fee (based on the size of the locker rented) of $5.00 - $15.00 per semester.

**Recreational Sports Towel Service Fee:** An optional towel service of $10.00 per semester.

**Reinstatement Fee (Prior to Census Day):** After the payment deadline for each semester, all registration for which tuition and fee payments have not been received may be canceled. If a student requests that the courses be reinstated before Census Day, a $25.00 reinstatement fee will be charged in addition to the graduated late registration fee. No student will be reinstated into a class that has been closed.

**Reinstatement Fee (After Census Day):** A $300.00 fee will be charged, in addition to tuition and required fees, to enroll a student after Census Day.

**Returned Check Fee:** Students will be assessed a $25.00 fee for each returned check unless their bank provides written notification it was at fault. Students who write bad checks to the university for tuition and fees will have their registration canceled unless full payment is made by the Census Day listed in the Academic Calendar.

**Student Documents/Records Fee:** Students may obtain a copy of International Transcripts by making a written request to the Office of the Registrar and paying a fee of $10.00 per document copy at the Bursar Office. Processing of these requests for copies will generally take four to five work days. Students should be aware, however, that transcripts of other schools received by the university are used as working documents, frequently carry written marks and notations, and may not be considered viable transcripts by other agencies.

**Student Health Insurance Fee:** A variable fee to pay the student's premium for the approved UT Dallas student health insurance plan available to all students and required for international students (students who are not U.S. citizens, U.S. Permanent Residents, Asylees, Refugees or undocumented aliens). (See catalog.utdallas.edu/2015/undergraduate/resources#student-health-insurance).

**Student Health Insurance Fee, Dependents and Extra Coverage:** A variable fee to pay the premium for expanded coverage within the approved UT Dallas student health insurance plan. These insurance fees are...
optional and available upon request to students who wish to add dependents or extra coverage to their enrollment in the UT Dallas student health insurance plan.

**Student Identification Card Replacement Fee:** A $25.00 fee is required to defray the costs of reissuing a student ID card.

**Student Teaching Supervisory Fee:** A $250.00 per field experience fee is required to defray costs of providing university supervisors and travel for university supervisors of student teachers.

**Supplemental Designated Tuition:** An extra fee per semester credit hour will be assessed for students enrolled in any School of Management course, School of Engineering and Computer Science course, School of Arts and Humanities ATEC course, Economic, Political and Policy Sciences graduate Public Affairs course, or School of Behavioral and Brain Sciences graduate Speech Language or Audiology (COMD or AUD) course. These fees are assessed to defray the higher costs associated with instruction in these schools. Please check the online fee schedules at www.utdallas.edu/bursar/tuition/tables for fees rates. The rate varies based on the specific tuition plan.

**Three Course Repeat Fee:** As outlined in section 54.014 of the Texas Education Code, an institution may charge resident undergraduate students a higher rate when they enroll in a course, excluding designated repeatable courses, that the student has previously completed. An undergraduate student who registers for a course three or more times will be charged the non-resident tuition rate.

**Transcript Request Fee:** A $10.00 processing fee for each official university transcript requested.

**Universities Center at Dallas Fee:** A $15.00 fee per semester credit hour is required to defray the costs of courses taken at the Universities Center at Dallas.
Tuition and Financial Aid

Financial Aid

The Office of Financial Aid is available to assist students in obtaining funds to attend the university. Aid is available in the form of grants, loans, and part-time employment or any combination of those programs. Limited numbers of scholarships are available. The total amount of aid a student receives depends on the student's cost of attendance, expected family contribution, meeting application deadlines, outside resources, academic history, and the availability of funds.

Students are encouraged to contact the Office of Financial Aid to obtain appropriate application materials and to determine eligibility for the various forms of aid available. Students may visit the Office of Financial Aid website for up-to-date information. The Office of Financial Aid is located in the Student Services Building, 972-883-2941.

Changes in regulations or policy on a federal, state, university, private lending, or donor level could affect the types of programs, amounts available, and/or program requirements. A complete overview of the estimated cost of attending the university is available on our website at www.utdallas.edu/student/finaid/Estimated_Costs.htm.

Eligibility

Most of the aid listed in this catalog is awarded on the basis of financial need. Students are encouraged to determine the amount of resources they can provide toward their education and to compare it with the average cost of attending the university. UT Dallas' estimated cost of attendance budgets are reviewed annually in accordance with federal and state guidelines. Federal guidelines outline what can be included in student budgets. The costs of tuition and fees, books and supplies, an average room and board cost, transportation, and a limited amount for other personal expenses are the basic components of student budgets. Unusual expenses, such as childcare costs or educational costs related to the student's medical disability, may be considered when they have been properly documented.

Financial need is the difference between the cost of attending the university and the amount a student and family can reasonably provide. The amount of the expected family contribution is based on a federal formula reflecting total family income, assets, household size, and the number of family members currently attending post-secondary educational institutions. Parents are expected to provide financial support to their children to the extent they are able unless it is clearly established that the student is independent of any family support.

In determining whether a student is considered independent or self-supporting, the Office of Financial Aid adheres to the standards set by the U.S. Department of Education to establish an applicant's dependency status. Students 24 years or older are considered financially independent. Students under the age of 24 are considered financially dependent unless they are orphans, wards of the court, emancipated minors, verifiable unaccompanied homeless youths, veterans, active duty military, graduate students, married, or unmarried but with legal dependents.
Applying for Financial Aid
Students must complete a new Free Application for Federal Student Aid (FAFSA) each academic year. Any additional required supporting documents must also be submitted for each academic year. The FAFSA is available January 1st of each year for the subsequent academic year. The awarding of need based financial aid is based on the results of each year’s FAFSA. If you do not meet federal eligibility requirements to be considered a citizen or eligible non-citizen, but have been classified as a Texas resident and are therefore eligible to pay the Texas in-state tuition rate, you must complete a paper version of the Texas Application for Student Financial Aid (TASFA) available to be downloaded and printed at www.collegeforalltx.com. This must be submitted directly to the Office of Financial Aid.

Required Course Load
The course load requirement for students receiving each type of aid, with the exception of the Federal Pell Grant, is at least one-half the normal course load. Undergraduate students must maintain no fewer than 6 semester credit hours for each term of enrollment to be considered half time for financial aid purposes. There is no distinction between a regular, long semester and a short summer term when determining the required course load. Students should contact the Office of Financial Aid before they reduce their course load to determine what effect the reduced course load will have on current and future financial aid eligibility.

Renewal of Financial Aid
For a student to be considered for a renewal of financial aid, a new Free Application for Federal Student Aid (FAFSA) and supporting documents must be submitted for each academic year. If you do not meet federal eligibility requirements to be considered a citizen or eligible non-citizen, but have been classified as a Texas resident and are therefore eligible to pay the Texas in-state tuition rate, you must complete a paper version of the Texas Application for Student Financial Aid (TASFA) available to be downloaded and printed at www.collegeforalltx.com. This must be submitted directly to the Office of Financial Aid.

Revocation of Financial Aid
The university reserves the right to adjust or cancel awarded financial aid when the information used to make the award changes. Partial or full repayment of awards may be required.

Any change in a recipient’s financial situation, such as additional grants, scholarships, or private student loans, must be reported to the Office of Financial Aid. Federal law governing the administration of financial aid requires UT Dallas to consider most forms of grants, scholarships, and private loans as a resource, without regard to the source or how the aid is disbursed, when awarding federal student financial aid.

Information concerning student financial aid is accurate at the time of printing. Changes in regulations or policy on a federal, state, university, private lending, or donor level could affect the type and amount of programs available and/or program requirements. The Office of Financial Aid has detailed information available upon request.
Satisfactory Academic Progress Policy for Financial Aid

The University of Texas at Dallas has a Satisfactory Academic Progress (SAP) policy for a student receiving federal and university student financial assistance.

Generally, students are expected to remain in good standing by the satisfactory completion of a minimum number of semester credit hours, based on a percentage of the semester credit hours attempted and completed for each term of enrollment. In addition, undergraduate students must maintain a cumulative GPA of 2.000 or higher on a 4.000 scale on coursework completed at the university. For more detailed information the student should contact the Office of Financial Aid. This information is also available online at the Office of Financial Aid website at www.utdallas.edu/student/finaid/SAP.htm. A link to the website is provided on award notifications.

Selective Service

Male students between the ages of 18 and 26 must register with Selective Service to qualify for federal and Texas student loans or grant programs. Students may register with Selective Service by visiting their local post office or online; they can also verify their registration at www.sss.gov.

Effective January 1, 1998, the selective service requirement is also applicable to students applying for financial assistance funded by State revenue.
Tuition and Financial Aid

Types of Financial Aid

Basis for the Type of Financial Aid

The aid awarded to a student may consist of a loan, grant, scholarship, part-time job, or any combination of these programs. The total amount of aid the student receives depends on the student’s cost of attendance, expected family contribution, meeting application deadlines, outside resources, academic history, and the availability of funds.

The following is a summary of the types of assistance that are available to students at The University of Texas at Dallas. The student should be aware that many of the programs are subject to change without notice by the state or federal government. Information on all programs may be obtained from the Office of Financial Aid unless otherwise noted.

Federal Pell Grant

The Federal Pell Grant program provides funds to students demonstrating financial need. Students should submit the Free Application for Federal Student Aid (FAFSA) at www.fafsa.gov to apply for this program. This grant is available to undergraduate students who are pursuing their first baccalaureate degree.

Federal Supplemental Educational Opportunity Grant (FSEOG)

This federally funded program provides grants to undergraduate students with exceptional financial need. Students completing a FAFSA will automatically be considered for this grant. Awards are based on the availability of funds and the student's financial need.

Toward Excellence, Access and Success Grant (TEXAS Grant)

This program provides grants to enable academically prepared eligible students to attend public and private nonprofit institutions of higher education in Texas. An undergraduate student is eligible who:

• is a Texas resident;
• has graduated from a public or accredited private high school in Texas. There is a time limit of 16 months after graduating from high school to be eligible;
• completed the Recommended High School Program, or Distinguished Achievement Program or its equivalent in high school;
• has financial need, with an expected family contribution (EFC) of 4,800 or less for the academic year;
• has accumulated no more than 30 semester credit hours, excluding those earned for dual or concurrent courses or awarded for credit by examination (AP, IB, or CLEP);
• completes FAFSA or TAFSA (if applicable) and enrolls at least 3/4 time in an undergraduate degree program;
• has not been convicted of a felony or a crime involving a controlled substance; and
• has registered for the Selective Service or is exempt from doing so;

OR
• has earned an associate degree from a public technical, state, or community college in Texas; and
• enrolls in any public university in Texas no later than 12 months after receiving the associate’s degree.

The amount of the grant is based on the average tuition and fees charged at 4-year public institutions. Students who continue in college and who meet program academic standards can receive awards for up to 150 semester credit hours or for six years, whichever occurs first. Requirements for continued funding are completion of at least 75 percent of the semester credit hours taken in the prior year and completion of at least 24 credits in the prior year. Additionally, students must maintain an overall grade point average of at least 2.500 on a 4.000 scale. Awards are made through the Office of Financial Aid. Students completing a FAFSA or TAFSA will automatically be considered for this grant. Students must submit the FAFSA or TAFSA before the deadline to be considered as on-time. The deadline is set annually and can be found online at www.collegeforalltexans.com. There is limited funding available.

Top 10% Scholarship Program
The 80th Texas Legislature created the Top 10 Percent Scholarship to encourage students who graduate in the top 10 percent of their high school class to attend a Texas public institution of higher education. Typically, if funding is available, qualifying students who submit the Free Application for Federal Student Aid (FAFSA) or Texas Application for State Financial Aid (TASFA) by the deadline and have financial need and enroll full-time in a Texas public college or university in the fall semester may be eligible for an award. The deadline is March 15. Students who submit their FAFSA or TASFA after the published deadline will not be awarded due to limited funding. Complete information regarding this program can be found at www.collegeforalltexans.com.

Eligibility Requirements
Initial Eligibility Requirements:
• Be a Texas resident
• Demonstrate financial need (to be determined by the Office of Financial Aid)
• Complete the FAFSA (or TAFSA if applicable) before March 15. The FAFSA must be processed by the federal government in a non-rejected status by this deadline. The Texas Application for State Financial Aid (TASFA), if ineligible to complete the FAFSA, must be received by the Office of Financial Aid by March 15.

• Complete Recommended or Distinguished Achievement high school curriculum

• Rank in the top 10 percent of the high school graduating class

• Graduate from an accredited high school in Texas

• Enroll full-time in a Texas public 2-year or 4-year college or university in the fall semester immediately following high school graduation

Renewal Requirements (contingent upon available funding):

• Complete 30 semester credit hours in the previous year

• Maintain cumulative 3.250 GPA

• Complete at least 75% of semester credit hours attempted

• Complete FAFSA (or TAFSA if applicable) by March 15

Texas Public Educational Grant

An act of the 64th Texas Legislature established a grant program to provide financial assistance to students. The program is funded through appropriation of a portion of the tuition charges for resident and non-resident students. Students completing a FAFSA or TASFA will automatically be considered for this grant. Awards are based on availability of funds and the student's financial need.

Educational Assistance Grant

This program was established to provide financial assistance to students by an act of the Texas Legislature. The program is funded through appropriation of a portion of the designated tuition charge for resident and non-resident students. Students completing a FAFSA will automatically be considered for this grant. Awards are based on availability of funds and the student's financial need.

General/Endowment Scholarship Programs

The University of Texas at Dallas offers a number of endowed scholarships that are administered by a school or program. Students are encouraged to contact their school dean or program office to obtain information about eligibility criteria and scholarships awarded in the student's area of study.

The Texas Education Code contains specific requirements for a scholarship to be considered competitive:

Sec. 54.213. SCHOLARSHIP STUDENT

(a) An institution of higher education may charge a nonresident student who holds a competitive scholarship of at least $1,000 for the academic year or summer term for which the student is enrolled resident tuition and fees without regard to the length of time the student has resided in Texas. The student must compete
with other students, including Texas residents, for the scholarship and the scholarship must be awarded by a scholarship committee officially recognized by the administration and be approved by the Texas Higher Education Coordinating Board under criteria developed by the coordinating board.

(b) The total number of students at an institution paying resident tuition under this section for a particular semester may not exceed five percent of the total number of students registered at the institution for the same semester of the preceding academic year.

(c) The difference between tuition charged to the student under this section and the tuition the student would be charged if this section did not apply to the student shall not be accounted for in such a way as to reduce the general revenue appropriation to an institution of higher education that charges a nonresident student resident tuition and fees under this section.

Transferred and redesignated from Texas Education Code, Section 54.064 by Acts 2011, 82nd Leg., R.S., Ch. 359, Sec. 1, eff. January 1, 2012.

In addition to any specific criteria governing awards of competitive scholarships (e.g., major field of study) the committee responsible for such awards will give primary consideration to the applicant's academic records, both evaluating the type and nature of courses taken and the grades achieved in specific courses. The committee may also consider and give positive weight to such factors as the following in designating recipients:

- Achievements in work experiences
- Community service
- Extracurricular activities; leadership
- Surmounting obstacles to the further pursuit of higher education
- Socioeconomic background
- Educational level
- Status as a first generation college student

Scholarships typically are awarded in the spring semester for disbursement during the following academic year.

Federal Work-Study Program

Federal Work-Study employment, either on-campus or off-campus, is available to students on the basis of demonstrated financial need. The wages of students participating in this program are subsidized with federal funds, making it easier to find a part-time job. The student is paid directly. Students completing a FAFSA will automatically be considered for this program.

The rate of compensation depends on the type of job, qualifications, and classification. For information on job availability, students who have been awarded Federal-Work Study as part of their financial aid package should contact the Career Center at 972-883-2943 or go to their website at www.utdallas.edu/career to access the CometCareers system.

Other On-Campus Employment

Various programs and schools of the university employ students in positions that are not Federal Work-
Study positions and are not based on need. Normally, students are employed for a maximum of 19.5 hours per week. Students interested in these positions should contact the Career Center at 972-883-2943 or go to their website at www.utdallas.edu/career to access the CometCareers system.

Federal Direct Stafford Loan

Also called a Direct Loan, funds from this program are made available to students from the U.S. Department of Education. The loan can be either subsidized or unsubsidized, or a combination of both. The maximum amount a student can borrow from this program in an academic year depends on the student's year in school (i.e., freshman, sophomore, etc.); whether the student is considered to be dependent or independent for the purposes of financial aid; the student's total cost of education as determined by the school; and what other forms of financial aid the student is receiving. To qualify for a subsidized Stafford Loan the student must demonstrate financial need. The federal government pays the interest on a subsidized Stafford Loan as long as the student remains enrolled in school at least half-time. The unsubsidized Stafford Loan is available for students who do not demonstrate financial need and for students who need more funding than is available with the subsidized Stafford Loan. Students who borrow an unsubsidized Stafford Loan are charged interest while they are enrolled in school. Students completing a FAFSA are automatically considered for this program.

Information regarding this program, including the promissory note and the Entrance Counseling, is available at www.studentloans.gov.

Federal Perkins Loan Program

This loan program provides a combination of federal and institutional funds to students who qualify on the basis of financial need. Priority is given to those students who demonstrate exceptional need. Students completing a FAFSA are considered for this program. Funding for this program is limited.

An undergraduate student may borrow up to a maximum amount of $5,500 per academic year with an aggregate undergraduate loan limit of $27,500. Graduate students may borrow up to $8,000 in a year with a
total aggregate borrowing of $60,000, which includes amounts borrowed as an undergraduate. Current funding levels for this program do not allow UT Dallas to offer eligible students the maximum annual amount.

A Federal Perkins loan bears a modest interest rate. Borrowers are required to begin repayment of principal and interest nine months after they cease to be at least half-time students. Repayment may extend over a ten-year period; however, there is a minimum payment of $40.00 a month.

Hazlewood Veteran Tuition Exemption

The Hazlewood Exemption Act provides an education benefit to honorably discharged or separated Texas veterans and to eligible dependent children and spouses of Texas veterans. Eligible students may receive an exemption from the payment of all tuition and most fees at Texas public institutions for up to 150 semester credit hours. Information on the Hazlewood Act and eligibility requirements are available at the Texas Veterans Commission website. Additional information can be found in the Office of Financial Aid Hazlewood Exemption website.

TEACH Grant Program

The College Cost Reduction and Access Act of 2007 created the Teacher Education Assistance for College and Higher Education (TEACH) Grant Program that provides up to $4,000 per year ($16,000 total for four-year programs) in grants to students who intend to teach full-time in high-need subject areas for at least four years at schools that serve students from low-income families.

Eligible students must be enrolled in coursework that is necessary to begin a career in teaching or plan to complete such coursework. Coursework that will prepare a student to teach in a high-need subject area (e.g., math courses for a student who intends to be a math teacher) is acceptable.

Eligible students must meet the following academic achievement requirements of either scoring above the 75th percentile on either the SAT or the ACT, or graduate from high school with a cumulative GPA of at least 3.250 on a 4.000 scale, or maintain a cumulative GPA of at least 3.250 throughout the academic program for which they receive a TEACH Grant.

Eligible students must complete TEACH Grant counseling and sign a "TEACH Grant Agreement to Serve." The TEACH Grant service agreement specifies the conditions under which the grant will be awarded, the teaching service requirements, and includes an acknowledgement by the student that if the required teaching service obligation is not met, TEACH Grant funds will be converted to a Federal Direct Unsubsidized Stafford Loan that must be repaid, the interest charged from the date of each TEACH Grant disbursement.
Teaching Obligation

To avoid repaying the TEACH Grant as a loan with interest, a student must be a highly-qualified, full-time teacher in a high-need subject area at a school serving low-income students for at least four years within eight years of completing or withdrawing from the academic program for which the grant was received.
General Resources
- Callier Center for Communication Disorders
- Career Center
- Carolyn Lipshy Galerstein Women’s Center
- Child Care Center
- Comet Card
- Comet Center
- Comet Families
- Comet Spirit Programs
- Computer Facilities
- CourseBook Tool
- Dean of Students
- Distance Education
- Financial Literacy Training
- Fraternity and Sorority Life
- Intercollegiate Athletics
- International Student Services Center
- Judicial Affairs
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- Student AccessAbility
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- Student Counseling Center
- Student Exchange Program - UT System
- Student Government
- Student Leadership Programs
- Student Media
- Student Organization Center

Student Organizations
Student Outreach and Academic Retention (SOAR)
Student Success Center
Student Transition Programs
Student Union
Student Union and Activities Advisory Board (SUAAB)
Student Volunteerism
Student Wellness Center
Study Abroad
Textbooks
Transfer Student Services
University Housing Information
University Libraries
UT Online Consortium
Veteran Services Center

Health Resources
- Student Health Center
- Bacterial Meningitis Vaccination Requirement
- Hepatitis B Vaccination Requirement
- Mandatory Tuberculosis (TB) Skin Test for International Students
- Recommended Immunizations
- Student Health Insurance

International Resources
- International Center
- Education Abroad/Study Abroad Programs
- Education Abroad Policies (link to Academic policies page)
- Intercultural Programs
- International Student Resources
  - Definitions and Fees
  - Registration Requirements
  - Student Health Insurance
  - Student Immigration Services

Comment [MJ1]: May need to create 3 columns instead of 2 columns
International Travel Policies and Services

Professional Resources
Professional Preparation
Health Related Professions
Law Professions
Teacher Certification

Student Complaint Resources
Student Complaint Resources
Resources for Study and Campus Life

Callier Center for Communication Disorders

The Callier Center is an internationally recognized institution that offers services to people who have any type of communication disorder. Acknowledged for meeting the assessment, treatment, education, and social service needs of children and adults with communication disorders, the Center has programs in preschool education, parent education, and child development. Its clinical services include pediatric and adult services in audiology, speech pathology, and language development; its research activities include psychoacoustics, auditory neurophysiology, speech science, and audiology. Graduate classes are conducted at the Callier Center-Dallas facility, adjacent to The UT Southwestern Medical Center and at the Callier Center-Richardson facility on the main UT Dallas campus.

Career Center

The Career Center offers a full range of services to help students determine their future goals and design their career paths. Career Consultants are available to assist students from all majors. Services include career advising and interest assessments, resume and job search document critiques, mock interviews, job search assistance, and more. In-depth information is available on the Career Center’s website.

The Career Center manages the internship program for all majors except EE/CS majors. Students can obtain assistance with searching for and applying for internships as well as information about options for academic credit based on their major. A variety of seminars on such topics as resume writing, cover letter writing, interviewing, networking, and conducting an effective job search are offered on a regular basis. The Career Center also offers a credential file service to assist PhD students with applying for academic positions after graduation.

Part-time jobs, full-time jobs, internship opportunities, volunteer positions, on-campus interview schedules, and career events are posted through CometCareers, an online database. On-campus student employment and work-study positions are also posted through CometCareers, with the exception of TA and RA positions, which are handled by the academic departments. All students have a CometCareers account - they just need to log in and complete their profile. Students upload a resume into the system in order to apply for qualified positions or to make it available for employer referrals.

Representatives of business, government, industry, education, and social agencies work directly with the Career Center to determine the best way to connect with students. They regularly recruit UT Dallas students and alumni through career expos, on-campus interviews, and information sessions. Potential employers also connect with students through Career Center sponsored events such as Mock Interview Day, Resume ER, and many others throughout the year. Organizations post their various opportunities through the CometCareers system.

For more information, contact the Career Center in the Student Services Building room 3.300, telephone: 972-883-2943, web: http://www.utdallas.edu/career, email: Career Center.

Carolyn Lipshy Galerstein Women's Center

The Women's Center works with organizations in the university and the Dallas communities to provide...
resources and services that enhance the experience of all campus women by contributing to an academic atmosphere in which positive role models are highly visible and gender bias and inequities can be addressed. The Center acts as a central coordinating agency for campus and community groups, and offers opportunities and events that promote a broader understanding of the diverse experiences and ideas of women. The Center offers dynamic programs, and provides resources and services that will help the women of our community to grow and develop personally and professionally.

How can I use the Women's Center?

• Meet new people, network with other professionals, socialize, talk to someone who's willing to listen;
• Take a break, study, use the computer, read or rent a book, video, or magazine from our library;
• Learn about resources on campus and in the community that address your specific needs;
• Use the Center as a meeting place for your organization;
• Volunteer at the Women's Center, or find out about volunteer opportunities in the community;
• Stay current on upcoming events and important issues;
• Find out about scholarships offered in the community and nationally.

The Women's Center is located in the Student Services Building, room SSB 4.300, 972-883-6555.

Child Care Center

The Dallas International School (DIS) and UT Dallas jointly provide evening child care. Parents who attend classes are eligible for child care services during their evening class hours for children ages 4 to 11. Child care hours are from 3:30 p.m. to 10:30 p.m., Monday-Thursday. To register your child/children for the child care program please complete each of the forms in the enrollment packet. Call 972-883-6391 to have a packet sent to you, or pick one up in the Student Services Building, 4.400.

Comet Card

The Comet Card is the official university identification card for all students, faculty, and staff. The Card allows access to campus facilities and services, including building access and meal plans, if applicable. It also offers an optional campus account, UTDollars, for on-campus purchases and payments. The Comet Card will no longer be linked to a personal Wells Fargo bank account effective July 15, 2014. However, if you have linked your Comet Card to a Wells Fargo bank account, you may continue to use your linked Comet Card for ATM access and PIN-debit purchases during a transition period. There is no need to exchange your current Comet Card. The Comet Card will still be used for all other university purposes, including use of UTDollars, building access, meal plans, if applicable. Cards are issued through the Comet Center located in the Student Union. Call 972-883-2495 or go to www.utdallas.edu/cometcard for more information.

Comet Center

The Comet Center, located on the second floor of the Student Union, is where you go to have your Comet Card issued, pick up DART passes or purchase postage stamps and discount tickets to movies, museums, and other local DFW attractions. See www.utdallas.edu/cometcenter for more information.
Comet Families

Comet Families is an avenue for family members and parents of UT Dallas students to get information about the campus, be involved in their student's campus experience, and strengthen their connection to the Comet community. For more information call 972-883-6395 or go to www.utdallas.edu/family.

Comet Spirit Programs

Comet Spirit Programs is comprised of the UT Dallas Cheerleaders, Power Dancers, Pep Band, Soccer Sweethearts, Diamond Dolls, Court Cuties, and Temoc. Temoc is the official mascot of UT Dallas and works with all spirit groups to build school spirit, promote community and cheer the Comets on to victory (www.utdallas.edu/spirit).

Computer Facilities

The Office of Information Resources provides computing facilities for student, faculty, and staff use in instruction and research. General access computer labs are located on the first floors of the Founders Building and the McDermott Library Building. The labs provide a modern, networked computing environment with Windows-based and Macintosh computers, scanners, and more.

Dedicated systems are also available to support such functions as campus information services, programming, research-related activities, and computationally intensive applications. A sophisticated campus-wide network permits offices and laboratories direct access to extensive computing resources both on- and off-campus. The university maintains high bandwidth connections to the commodity Internet as well as appropriate research and education networks, such as Internet 2.

Remote administrative services are provided through the Galaxy portal (galaxy.utdallas.edu), and remote access to the campus network and computing resources is provided through VPN (Virtual Private Networking) services. The university provides wireless LAN access to the campus community across most of the institution. Currently enrolled UT Dallas students and employed faculty and staff may utilize the campus network using devices with the appropriate wireless network interface. Guest wireless access is also provided on request. The latest information regarding computing services can be found at the Information Resources website at www.utdallas.edu/ir.

Many of the schools, programs, and research centers operate their own computing facilities that are available to students as appropriate.

CourseBook Tool

CourseBook is a tool to search for and obtain information related to course scheduling, course descriptions, and course location. CourseBook also contains course syllabi (syllabus), textbook information, course evaluations, and instructor curriculum vitae within one web portal. Go to coursebook.utdallas.edu.

Dean of Students

The Dean of Students provides leadership in the development, overall management, and supervision of
student organizations and activities and serves as an information/referral source for students needing assistance in any situation. The Dean of Students Office is in the Student Services Building, 4.400, and can be contacted at 972-883-6391 or on the web at www.utdallas.edu/deanofstudents.

Distance Education

Education opportunities at the university include courses and entire programs taught online via the Internet. UT Dallas currently offers courses in a number of areas from across the campus, including courses in teacher education and the natural sciences. Furthermore, distance learning opportunities at The University of Texas at Dallas now utilize e-learning technologies to provide students the opportunity to engage in coursework from remote locations and without the time constraints of the traditional face-to-face classes.

Blended (or hybrid) courses that utilize both on- and off-campus presentation, providing students an opportunity to maximize their learning by collaborative learning experiences are also available. UT Dallas also works with a number of partner institutions to provide students additional learning opportunities through exchange programs and other collaborative programs both nationally and internationally.

More information about specific distance learning programs or courses at The University of Texas at Dallas and registration procedures can be found in the Class Schedule or on the distance learning website at www.utdallas.edu/elearning/online-programs.

Financial Literacy Training

In accordance with Texas Education Code, Section 51.305, the university provides students information and resources to acquire financial literacy skills through a series of lectures and/or online courses. By accessing these resources at the Comet Cents Financial Success Center website and meeting with peer financial coaches, students learn how to budget, to build and maintain credit, and to develop skills in managing their personal finances, including health care and other benefits, investing for the future, loans and repayments, retirement planning, saving accounts, and taxes.

Fraternity and Sorority Life

UT Dallas is home to 21 national Greek fraternity and sorority organizations that provide students with opportunities for friendship, academic achievement, service, and leadership. For more information call 972-883-6523 or go to www.utdallas.edu/go希腊.

Intercollegiate Athletics

UT Dallas is a member of the NCAA Division III American Southwest Conference. The UT Dallas athletic program includes men's and women's soccer, golf, basketball, tennis, and cross country, men's baseball, women's softball, and women's volleyball teams. Graduate students are able to participate only if their undergraduate degree is from UT Dallas and they still have NCAA eligibility remaining. Administrative offices are located in the Activity Center. For additional information call 972-883-4490 or go to cometsports.utdallas.edu.
International Center (link to/drop down)

The UT Dallas International Center (IC) provides programs and services for international students, all students who study abroad, and those participating in UT Dallas sponsored international travel. The IC includes the following departments:

Education Abroad (EA) facilitates education abroad activities including study abroad (for credit/internship/service learning), faculty led programs, and international student exchange programs. Utdallas.edu/ea.

The International Student Services Office (ISSO) serves as a primary resource to the UT Dallas international community by providing student immigration services (prospective, current, and graduated students), federal SEVIS reporting, student immigration advising, F and J immigration processing, and ancillary immigration programs and services. Utdallas.edu/issso.

Intercultural Programs (IP) provides and supports internationally-focused programs for both international and domestic students, such as International Week, International Education Week, Study Abroad fairs/events, and International Student Orientation. Utdallas.edu/icp.

International Partnership Development (IPD) works with the UT Dallas International Partnership Development Committee to review and facilitate University-level international affiliation agreements and partnerships with international counterparts. Utdallas.edu/ipd.

International Risk and Safety (RS) works with the UT Dallas International Oversight Committee to provide risk and safety materials for UT Dallas students, faculty, and staff participating in international education programs and traveling internationally on UT Dallas business. Utdallas.edu/rs.

The International Center departments are located in the Student Services Building, SSB 3.400. More information can be found at utdallas.edu/ic or by calling 972-883-4189.

Education Abroad/ Study Abroad Programs (link to/ drop down)

UT Dallas offers many international opportunities for both graduate and undergraduate students. Students may participate in international educational programs through five types of mobility: exchange programs, faculty-led programs, internships, independent studies, and third-party study abroad programs.

The Education Abroad office provides information on available opportunities, university policies governing program options, eligibility requirements, basic preparation, institutional protocol, education abroad fees, and the International Education Fund Scholarship. Information is available through special events, group meetings, individual appointments, reference materials, and at the Education Abroad website, www.utdallas.edu/ea.

Students may apply for the UT Dallas International Education Fund (IEF) Scholarship to request financial support for education abroad programs. Information about the IEF Scholarship, including eligibility requirements and deadlines, is available at the Education Abroad website (utdallas.edu/ea/iefs/). Students may consult with the Office of Financial Aid to determine how participation in education abroad impacts existing financial aid offerings.

Education Abroad is located in the Student Services Building, SSB 3.400. More information can be found at utdallas.edu/ea or by calling 972-883-4189.

Intercultural Programs (link to/ drop down)

Intercultural Programs promotes cross-cultural learning and respect through high-quality, innovative, educational and collaborative programming. Some of Intercultural Programs' largest events include International Week, which celebrates the
International Student Resources (link to/ drop down)

Definitions and fees
All international students enrolling in UT Dallas courses are required to pay the International Student Special Services Fee for the ongoing support of all non-immigrant students enrolled at UT Dallas. Immigrant categories that are fee-exempt include: U.S. citizen; Permanent Resident (PR card required); Conditional Resident; Temporary Protected Status; Refugee; Asylee; Public Interest Parolee; Temporary Residence-Amnesty; People with no documented immigration status.

Any F-1 student participating in Optional or Curricular Practical Training programs is required to pay the Practical Training fee at the point of each Practical Training application. This fee funds the administrative and clerical expenses required to review records and process the forms required by the United States Citizenship and Immigration Service to certify international students for placement in curricular or optional practical training assignments.

All F-1 and J-1 students enrolling in UT Dallas courses for the first time are charged the International Orientation fee to support the administrative cost of running the mandatory International orientation program.

Any student whose immigration status changes officially is required to submit proof of that change to the UT Dallas Registrar’s Office and International Student Services Office (ISSO). If the status changes to an exempt classification, the student will not, subsequently, be assessed the International Student Special Services Fee. If the appropriate documentation is submitted prior to Census Day of a semester, the fee for that semester will be refunded based on the tuition refund schedule as published in the UT Dallas Academic Calendar.

Registration requirements
Prior to enrollment, international students are required to meet the Tuberculosis test and Meningitis vaccine requirements. All F-1 and J-1 students must attend an International Student Orientation prior to registering in UT Dallas courses. Incoming freshman students may meet the International Student Orientation requirement by attending Freshman Orientation, with a supplemental one hour international session.

Student Health Insurance (link to SHI reference entry)

Student Immigration Services
The International Student Services Office (ISSO) provides immigration advising services and processing of I-20 and DS-2019 immigration documents for the international student population at UT Dallas. Services are designed to support international students with information necessary to achieve their educational goals, and information is available through individual student appointments, seminars and workshops, and other outreach activities. Specific legal advice may be sought through immigration attorney services provided by the Student Government. Further information can be found by contacting Student Government.

International Travel Policies and Services (link to policy page)

Judicial Affairs
A part of the Dean of Students Office, the Office of Judicial Affairs promotes academic integrity and is responsible for investigating allegations of academic dishonesty and implementing the discipline process. More information can be found at www.utdallas.edu/deanofstudents or by calling 972-883-6391.

Living Learning Communities
Living Learning Communities allow small groups of freshmen who share common academic objectives,
goals, and interests to develop a support network with other students, peer advisors, and faculty/staff members. Communities are built around academic interests with a faculty or staff advisor who facilitates distinctive academic and social opportunities that help students extend their learning beyond the classroom. For more information call 972-883-7348 or go to www.utdallas.edu/livinglearning.

**Multicultural Center**

The Multicultural Center (MC) provides cultural programs, support services, resources and cultural education programs. The MC is a place for students, faculty and staff to gather and relax. The MC has a comfortable lounge area with a television, videos, computer lab, work station, and a meeting room. Traditional events hosted by the MC are Hispanic Heritage Month, Black History Month, MLK Jr. Breakfast, Asian-American Heritage Celebration, Native American Heritage program, and the Diversity Dinner Dialogues. The MC is home to the Multicultural Peer Advocates (MPA's). The MPA's are student peer advocates that are available for personal, social or academic assistance.

Office hours are Monday through Thursday 8:30 a.m. - 6:00 p.m., Friday 8:30 a.m. - 5:00 p.m. Location: Student Services Building. Email: Multicultural Center. Telephone: 972-883-6390. Website: www.utdallas.edu/multicultural. Director: Arthur Gregg.

**New Student Programs**

New Student Programs facilitates the transition of new students and their families into the institution. Through a welcoming and inclusive atmosphere, we provide the framework for new students to learn and develop as they adjust to the expectations, standards, and academic rigors of the university while fostering pride in the UT Dallas community. For more information call 972-883-6171 or go to www.utdallas.edu/newstudents.

**Professional Preparation**

Students at the university who wish to prepare for a career in teaching, law, medicine, or a paramedical field should make every effort to ensure that their coursework at the upper division is in keeping with particular requirements of that chosen profession.

**Health Related Professions**

Healthcare professional programs do not state a preference about an undergraduate major field, thus permitting students to choose degree programs that correspond to their special abilities and interests. Students interested in the health professions may choose any major as long as they meet the minimum requirements stated by the professional school in question. Students who wish to continue their education in any professional program of study should contact the Health Professions Advising Center (HPAC) during their first semester at UT Dallas. The advisors may be reached by calling 972-883-6767 or by visiting their office at FO 2.210. More information may be found on their website at www.utdallas.edu/pre-health.

**Law Professions**

Law school admissions committees seek applicants from a variety of educational backgrounds, therefore students should choose degree programs that correspond to their special abilities and interests. Extra-curricular opportunities including internships, Moot Court, Mock Trial, Mediation, and the Innocence Project Workshop are available for students, regardless of their major. Students interested in a career in law should contact the Pre-Law Advising and Resource Center (PLARC) in the Office of Undergraduate Education, FO 2.202, or by calling 972-883-6712. The PLARC website is located at www.utdallas.edu/pre-law.
Teacher Certification

Students who wish to gain certification to teach in Texas schools may do so at UT Dallas through one of its two separate teacher preparation programs - the Teacher Development Center in the School of Interdisciplinary Studies (972-883-2730) and UTeach Dallas in the School of Natural Sciences & Mathematics (972-883-2496). Students must first be admitted individually to the academic program of their choice. They must also seek admission through either the Teacher Development Center or UTeach Dallas as early as possible. The Teacher Certification website is located at [www.utdallas.edu/teach](http://www.utdallas.edu/teach); the UTeach website is at [www.utdallas.edu/uteach](http://www.utdallas.edu/uteach).

Professional education courses, including student teaching, of at least 18 semester credit hours are prescribed to meet state certification regulations. Certification requirements may increase the number of semester credit hours normally required for graduation. Careful planning and utilization of electives for fulfillment of professional requirements may allow the student to avoid such an increase.

The Teacher Development Center supports all of the following certifications while UTeach Dallas supports only the secondary mathematics and science certifications (4-8 and 8-12). Teaching fields in which certification for Grades 8-12 may be earned are English Language Arts and Reading, Social Studies, Computer Science, History, Life Sciences, Physical Science, Science, Chemistry, and Mathematics. Teaching fields in which certification for Grades 4-8 may be earned are Science, Mathematics, Social Studies, English Language Arts and Reading, and Generalist 4-8. The Generalist Certificate is the only teaching field available at UT Dallas for Early Childhood (EC)-6 certification.

All students interested in Teacher Certification should consult the section on Teacher Education Certification Programs in the catalog, as well as the appropriate subject area.

Recreational Sports

Recreational Sports provides UT Dallas students with diverse recreational programs to enhance their overall educational experience. The Activity Center includes a state-of-the-art fitness center, racquetball courts, squash courts, basketball courts, a multi-purpose room, an indoor swimming pool, sand volleyball courts, soccer fields, tennis courts, softball and baseball fields, and a rock climbing wall. Rec Center West is located directly next to Residence Hall West and Dining Hall West. It is available to all students, faculty and staff. Rec Center West's gym courts will be reserved primarily for badminton and volleyball. The center also includes a cardio fitness space and multipurpose room for additional workout needs. Recreational Sports also offers students opportunities to participate in a variety of intramural and club sports, group exercise and non-credit courses. For additional information call 972-883-2096 or go to [www.utdallas.edu/recsports](http://www.utdallas.edu/recsports).

Residential Life

Residential Life and its student-support team of Peer Advisors are committed to seeing that every resident student has a safe, comfortable and welcoming environment in which to live and learn. For more information call 972-883-7340 or go to [www.utdallas.edu/housing](http://www.utdallas.edu/housing).
Road Warriors

The Road Warriors program is committed to enriching the collegiate experience of commuter students at UT Dallas. We serve the commuter student population through information, resources and social programs. For more information call 972-883-6183 or go to https://www.utdallas.edu/roadwarriors.

ROTC Programs

Students at The University of Texas at Dallas may participate in the Air Force ROTC program at The University of North Texas, or in the Army ROTC program at The University of Texas at Arlington.

Students register for the ROTC courses by contacting the Office of the Registrar at the time they register for other UT Dallas courses. Payment for the courses is through the UT Dallas Bursar Office by the published payment deadlines. The ROTC courses are used as elective courses. Successful completion of degree requirements and the respective ROTC program can lead to a commission as a second lieutenant in the United States Air Force or the United States Army.

For further information and application procedures, contact:

AIR FORCE ROTC
Detachment 835
The University of North Texas
P.O. Box 305400
Denton, Texas 76203-5400
Telephone: 940-565-2074

or ARMY ROTC, Enrollment Officer
The University of Texas at Arlington
P.O. Box 19188
Arlington, Texas 76019
Telephone: 817-272-3281 (metro)

Student AccessAbility

Student AccessAbility ensures that qualified students with documented disabilities have an equal opportunity to participate in educational, recreational, and social activities at UT Dallas. Students with disabilities are urged to contact Student AccessAbility as soon as they are admitted to the university. Student AccessAbility is located in the Student Services Building, 3.200, and can be contacted at 972-883-2098 or on the web at www.utdallas.edu/studentaccess.

Student Activities

Student Union and Activities Advisory Board (SUAAB) is a group of student leaders dedicated to programming diverse social and educational events to enhance the student experience. Events coordinated by SUAAB include the annual Homecoming Dance, Casino Night, Springapalooza, comedians, concerts, and more. SUAAB is located in the Student Activities Office (SU 2.506) and can be contacted at 972-883-6438 or on the web at www.utdallas.edu/suaab.

Meteor Theater is a student-run movie program that screens popular movies on campus.
also screens cutting edge documentaries through its Cinemateque program and international films through its World Cinema program. Meteor Theater host the annual Cosmic Film Festival to encourage an interest and appreciation of student-created, original movies and short films. Meteor Theater is located in the Student Activities Office (SU 2.506) and can be contacted at 972-883-6215 or on the web at (www.utdallas.edu/meteortheater).

Student Affairs
The Division of Student Affairs, under the direction of the Vice President for Student Affairs, offers a variety of student services and programs to enhance the educational experience of all enrolled students. For more information go to www.utdallas.edu/studentaffairs.

Student Counseling Center
The Student Counseling Center is staffed by licensed psychologists and counselors who are available to help students with personal and interpersonal problems. Services include individual counseling, couple counseling, group counseling, crisis intervention and special workshops/programs relevant to student needs. In addition, a psychiatrist is available to provide Student Counseling Center clients with medications when necessary.

All counseling services and records are held confidential to the extent permitted by law and are governed by the Family Educational Rights and Privacy Act, the Texas Open Records Act, and Article 5561(h), Vernon's Annotated Texas Civil Statutes. The Student Counseling Center is located in the Student Services Building, SSB 4.600. For more information call 972-883-2575 or go to www.utdallas.edu/counseling.

Student Exchange Program - UT System
The UT System Student Exchange program is designed to allow upper-division students enrolled in an institution of the UT System to take courses or engage in research at another institution within the System during a regular semester or summer session.

A UT Dallas student in good standing who has completed at least 60 semester credit hours is eligible to participate in the exchange program. Approval by the student’s Associate Dean of Undergraduate Education is also required. Visiting students register and pay tuition and required fees at their home institutions and are given normal privileges associated with available student services at the exchange institution. Visiting students are subject to the rules and regulations of both institutions.

Each UT System institution has designated an individual to coordinate and approve undergraduate student exchanges. Interested UT Dallas students should contact the Office of the Dean of Undergraduate Education for additional information: call 972-883-6706 or email the Office of the Dean of Undergraduate Education.

Students at other UT System schools wishing to take courses at The University of Texas at Dallas under this exchange program should contact and work through the office designated by their home institution.

Student Government
Student Government is the official representative body and voice of UT Dallas students. Students have the opportunity to participate through serving on committees, running for office, or voting in elections. Student
Government provides many free services for students, including attorney services, the Comet Discount Program, and free bluebooks. Further information may be obtained from the Student Government Offices in the Student Union (SU Suite 2.4), by calling 972-883-2284, or by going to www.utdallas.edu/student/sg.

**Student Health Center**

The Student Health Center offers routine medical services and treatment to all currently enrolled students who have paid the medical services fee and are attending classes. Services include physicals, diagnosis and treatment of acute illnesses and injuries, general medical problems, gynecological problems, treatment of stabilized chronic illnesses, allergy injections, and limited immunizations. Care providers include Nurse Practitioners and a Staff Physician. While there is no out-of-pocket cost to students for most services, there are charges for laboratory services, medications, and specific procedures provided to individual students.

Such charges incurred by students who are covered by the UT Student Health Insurance Plan are billed directly to the insurance company. Students not covered by this plan must pay for services at the time they are provided. The Student Health Center also provides information on the prevention and transmission of HIV infection and AIDS, and offers related testing and education programs. Students are also encouraged to be current on all recommended immunizations.

All services or treatment obtained from medical facilities other than the Student Health Center are the responsibility of the individual student. The staff at the Student Health Center can make referrals to off-campus medical providers as appropriate.

All medical services and records of the UT Dallas Student Health Center are held confidential to the extent permitted by law and are governed by the Family Educational Rights and Privacy Act, the Texas Open Records Act, and Article 5561(h), Vernon's Annotated Texas Civil Statutes. The Student Health Center is located in the Student Services Building, SSB 4.700. Call 972-883-2747 for more information or go to www.utdallas.edu/healthcenter.

**Bacterial Meningitis Vaccination Requirement**

Per State legislation effective January 1, 2012, all entering Texas college students must receive a vaccination or booster (if the vaccination is five years old) against bacterial meningitis before enrollment in accordance with Texas Education Code, Section 51.9192.

The vaccine or booster is required for entering students at Texas public and private colleges, living both on- and off-campus.

- An entering student is a new student or a student who has had a break of enrollment for one or more fall or spring semesters. Summer semester is not included as a break in enrollment.

- Transfer students are considered entering students. Transfer students may request an official memo stating proof of vaccination (within the last five years) from their previous institution and submit with the vaccination requirement form.

- Students who are enrolled only in online courses are exempt if they supply an online exemption form.

- Entering students 22 years of age or older are exempt.

The student, or parent or guardian of the student, must provide a meningococcal meningitis vaccine requirement form with an official immunization record or other required documentation listed on the form, showing the student has received the bacterial meningitis vaccination or booster during the five-year period prior to enrollment, and not less than 10 days before the first day of classes.
Students opting to decline the vaccination for bacterial meningitis for reason of conscience, including religious belief, should request an affidavit through the Texas Department of State Health Services. Entering students will be unable to register until the paperwork is received and reviewed. The Office of the Registrar sends electronic notifications to students about the vaccination or booster requirement until the paperwork is received.

Mail proof of bacterial meningitis vaccination and form to the following address:
Office of the Registrar, SSB 13
The University of Texas at Dallas
800 West Campbell Road
Richardson, TX 75080-3021
OR
Email bacterial meningitis vaccination documentation to the Office of the Registrar.

Questions concerning the bacterial meningitis requirement and forms should be directed to the Office of the Registrar, 972-883-2342 or go to www.utdallas.edu/student/registrar.

Hepatitis B Vaccination Requirement
A Hepatitis B vaccination is required for students enrolled in a course of study that involves potential exposure to human or animal blood or bodily fluids in accordance with Texas Education Code, Section 51.933.

Mandatory Tuberculosis Screening for International Students
• Tuberculosis (TB) screening is required for all persons born outside the United States, regardless of the status of their application, prior to registering for their first semester at UT Dallas. (Note: Being granted the resident tuition rate does NOT exempt an international student from this requirement.)
• Screening for TB must be administered, regardless of prior BCG vaccination, no more than (6) months prior to the first day of class.
• The only acceptable TB screening option is the Interferon Gamma Release Assay (IGRA) blood test (T-Spot). A TB skin test will NOT be accepted.
• The T-Spot test must be administered and interpreted in the United States by a licensed medical provider.
• International students who do not complete a TB screening or who do not submit the appropriate documentation will NOT be allowed to register for classes.
• The T-Spot test is available through the on-campus Student Health Center at a reasonable cost.

Appropriate documentation secured from a U.S. licensed medical provider may be sent to the following address:
Student Health Center, SSB 43
The University of Texas at Dallas
800 West Campbell Road
Richardson, TX 75080-3021

See the UT Dallas Student Health Center website for more detailed information.
Recommended Immunizations

The following vaccines are recommended but not required:

- Hepatitis A and B
- Human Papillomavirus (HPV)
- Influenza (flu)
- Measles, mumps, rubella (MMR) - 2 doses (required for international students)
- Tetanus, diphtheria, pertussis (Tdap)
- Varicella (chicken pox)

For more information, please visit www.utdallas.edu/healthcenter/immunizations.

Student Health Insurance

The University of Texas at Dallas Student Health Insurance Office, under the direction of the Student Health Center, provides unique and confidential health insurance advising services for UT Dallas students. Health insurance is available to all students at UT Dallas and is required of all international students (students who are not U.S. Citizens, U.S. Permanent Residents, Asylees, Refugees or undocumented aliens). All international students are assessed the Student Health Insurance (SHI) fee at the time of registration for classes. International students are responsible to pay the fee unless they apply for and are granted a waiver based on documentation of other comparable insurance coverage. Contact the Student Health Insurance Office for more information at 972-883-2747 or on the web at www.utdallas.edu/healthcenter/insurance.

Student Leadership Programs

Student Leadership Programs, offered through Student Development, help students to develop and enhance competence and self-knowledge as it pertains to leadership in a global society. Students have the opportunity to participate in two certificate tracks, workshops, webinars, and retreats and conferences. For more information call 972-883-2242 or go to www.utdallas.edu/leadership.

Student Media

The award-winning student newspaper of UT Dallas, The Mercury, publishes biweekly on Mondays throughout the school year. The newspaper offers paid positions for writers, editors, graphic designers, and photographers.

Radio UT Dallas, the student-run Internet radio station, features an eclectic and freeform mix of music and original programming including news and talk shows. College Music Journal has nominated Radio UTD as one of the best Internet radio stations in the United States.

AMP, a student opinion magazine that focuses on student life, global politics, arts, events, and social commentary, publishes once per month during the fall and spring semesters.

UTD TV, a web-based television station provides a medium for broadcasting news, entertainment shows, and other content produced by students, staff and faculty.
Student Organization Center

The Student Organization Center (SOC) helps UT Dallas students become more connected to campus life. SOC provides programming and services for registered student organizations and for students interested in participating in the many activities at UT Dallas. Visit us in the Student Union (SU 2.416) or go to www.utdallas.edu/sof.

Student Organizations

Registered student organizations provide the major means by which students can connect to campus life while developing friendships, interests, talents, and leadership skills. There are over 250 student organizations at UT Dallas that cater to a variety of interests, such as academic and honor groups, service clubs, religious groups, ethnic groups, and special interest groups. Detailed information on the groups and guidelines for forming new organizations is available in the Student Organization Center (Student Union, 2.416). For additional information call 972-883-6551 or go to www.utdallas.edu/sof.

Student Outreach and Academic Retention (SOAR)

In addition to School based advising, the Student Outreach and Academic Retention (SOAR) office is dedicated to providing academic advising to students who are at-risk for Academic Suspension and students who have not met the Academic Excellence Scholarship (AES) requirements. Students not in good academic standing or have not met their AES scholarship requirements are required to meet with a SOAR advisor and follow a prescribed advising plan. The individualized plan will be designed to help each student improve their academic standing by addressing their specific needs including but not limited to study skills, time management skills, personal issues, and appropriate campus office referrals. SOAR office advising is available to all students though not required of students in good standing.

Student Success Center

The Office of Student Success operates the Student Success Center, which offers assistance to students in the areas of writing, mathematics, communication, multiple science fields, reading, study skills, and other academic disciplines. These services are available through individual and small group appointments, workshops, short courses, and a variety of online and instructional technologies. All students enrolled at UT Dallas are eligible for these services.

The Math Lab gives short-term and semester long support for a variety of introductory and advanced mathematics courses. Students may drop in to visit with a math tutor on a regular basis. Comet card is required.

The Writing Center offers a collaborative learning environment for one-to-one and small group assistance with general and advanced writing assignments and overall writing skills. Scheduling an appointment is strongly recommended, but walk in appointments are possible if a tutor is available.

The Peer Tutoring program offers free tutoring assistance in multiple locations for many of the historically challenging undergraduate subjects at UT Dallas. Tutoring sessions, offered every weekday on a drop-in basis, are one-on-one or in a small group format. The sessions are designed to meet students’ individual questions and needs related to course/subject concepts. All peer tutors are current UT Dallas students who made an A- or better in the course and have a strong faculty/staff recommendation. Students should check the Student Success Center website each semester for subject offerings and session times.
The Peer-Led Team Learning (PLTL) program provides an active, engaged learning experience for students who meet in small groups once a week with a Peer Leader who helps guide them through potentially difficult gateway course. Students that attend sessions regularly typically earn a half to a whole letter grade higher than students that do not participate in the PLTL program.

Supplemental Instruction (SI) provides free, peer-facilitated weekly study sessions for students taking historically difficult courses. SI sessions encourage active, collaborative learning based on critical thinking and transferable study skills. SI leaders attend lectures, take notes, and read assigned material just like the enrolled students. Students should check the SSC website for subject and session times.

The Communication Lab (CommLab) offers one-on-one and group consultations where you will gain practical feedback for improving oral and group presentations.

Success Coaches are available for individual student appointments to discuss study skills, time management, note taking, test taking and preparation, and other success strategies.

The Student Success Center's main office is located in the McDermott Library Building and can be contacted by calling 972-883-6707 or by sending an email to the Center.

Student Transition Programs

The Student Transition Programs Office provides programming, services, involvement opportunities and websites specific to the sophomore, junior and senior student populations at UT Dallas. Programs include Major Investigations (SOYE), Career Connections (JRYE), and Countdown to Commencement (SRYE). The Student Transition Programs Office is located in the Student Services Building, 3.600, and can be contacted at 972-883-6147 or on the web at www.utdallas.edu/transition.

Student Union

The Student Union is a place for students to hang out, grab a bite to eat, and just relax. Open seven days a week, it includes a TV lounge, study lounges, pool tables, ping-pong tables, the Comet Café, which includes a variety of food options, The Pub, and a number of meeting rooms that can be reserved for organization meetings, as well as outside meeting areas on the mall in front of the building.

Student Volunteerism

The Student Volunteerism Program offers students a variety of opportunities to lend their time and talents in service to the communities of UT Dallas, North Central Texas, and beyond. Programs include Alternative Spring Break, Viva! Volunteer, Earth Week, UT Dallas Community Garden, OSV Student Leadership Program, recurring volunteer events, and year-round donation drives. The Office of Student Volunteerism is located in the Student Services Building (SSB 3.600) and can be contacted at 972-883-6393 or on the web at www.utdallas.edu/volunteer.

Student Wellness Center

The Student Wellness Center promotes health, fitness, and responsible personal choices among UT Dallas students through educational programs, resources, and individual consultations. Programs include alcohol and other drug awareness, sexual responsibility, suicide awareness, nutrition and fitness, and men's and
women's health. The Student Wellness Center is located in the Student Services Building, SSB 4.500, and can be contacted at 972-883-4275 or on the web at www.utdallas.edu/studentwellness.

**Education Abroad**

Education Abroad provides programs and for students pursuing international educational opportunities, including study abroad, international internships, international research opportunities, and international scholarship programs. Education Abroad provides information on university policies governing international education, program options, eligibility requirements, basic preparation, types of mobility, institutional protocol, and the international education fund scholarship. Information about study abroad opportunities is available through special events, group meetings, individual appointments, reference materials, and at the Education Abroad website, www.utdallas.edu/ea.

Students who represent UT Dallas in an international conference, workshop, and/or fully or partially sponsored by UT Dallas, i.e. air ticket, hotel, conference registration, etc., are required to complete international travel paperwork prior to travel. More information is available at utdallas.edu/ea.

Education Abroad is located in the Student Services Building, SSB 3.400. More information can be found at utdallas.edu/ea or by calling 972-883-4189.

**Textbooks**

The University Bookstore stocks all required textbooks and software. Textbook information for specific courses is available within the CourseBook web portal at coursebook.utdallas.edu. Textbook information includes International Standard Book Number (ISBN) and retail price information; data is collected from the campus bookstore on a regular basis. For additional assistance, click on the help tab within coursebook.utdallas.edu.

The University of Texas at Dallas advises students that they are not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer. (*Texas Education Code* 51.9705; 19 TAC 4.215)

**Transfer Student Services**

The Transfer Student Services Office provides support to new and returning transfer students to ensure their successful transition into UT Dallas. Programs include Transfer Orientation in Spring, Summer and Fall, Transfer Thirsty Thursday, Welcome Wednesday and more. Transfer Student Services also supports Tau Sigma National Honor Society for Transfer Students. The Transfer Student Services Office is located in the Student Services Building, 3.600, and can be contacted at 972-883-6147 or on the web at www.utdallas.edu/transferservices.

**University Housing Information**

Students are provided several affordable on-campus housing options. All on-campus housing is reserved for UT Dallas students. Locations include University Village apartments and University Commons residence halls, a community owned by UT Dallas.
In accordance with university policy, all freshmen who choose to live on campus are required to live in University Commons residence halls.

UT Dallas does not currently check criminal history records for on-campus housing students. The university is entitled to obtain criminal history information that relates to a student or applicant who applies to reside in on-campus housing and will notify the individual if the information is used to deny them housing. Texas Government Code, Section 411.0945.

For more information please go to www.utdallas.edu/housing or www.utdallas.edu/reslife.

Contact Information:
Residential Life Office
Telephone: 972-883-7340

Residential Life Office
University Village Apartments Leasing Office
2800 Waterview Parkway Suite #200
Richardson, TX 75080
Telephone: 972-792-9100
Fax: 972-792-9101

University Libraries

Eugene McDermott Library and the Callier Library support the research, instruction, and community service programs of the University by providing access to information in both print and electronic forms. The libraries consist of over two and a half million items, including more than 71,000 electronic journals, 1 million electronic books, and thousands of media, microforms, and maps.

Callier Library is a satellite facility dedicated to supporting the Callier Center for Communication Disorders and the Center for BrainHealth in downtown Dallas. It specializes in materials on speech and hearing disorders.

McDermott Library, located on the UT Dallas campus, is not only a federal depository library, it is also a Texas state depository. Government documents are available in a variety of formats. Other important items that research collections are housed within The Special Collections Department. Collections include the Wineburgh Philatelic Research Library, the Louise B. Belsterling Collection, the History of Aviation Collection, and the UT Dallas Archives. The Library also has a rare books collection. Distance learners can access the ever-expanding digital collection through the library's website. Current students, staff, and faculty have unlimited access to electronic resources such as databases, e-journals, e-books, and audiobooks. McDermott is also developing Treasures, a digital institutional repository to showcase the research and scholarship conducted at the university.

Staff members at both locations provide active support for all the people they serve. Librarians consistently hold class and individual instruction on the use of the library, how to conduct research and how to develop information literacy skills. Both McDermott and Callier Library offer students with disabilities a range of services to encourage their independent research.

If McDermott and Callier do not have requested items, library customers can utilize the Interlibrary Loan Service. This service provides students with books or articles from a network of major libraries.

UT Online Consortium
In addition to the online courses listed in the catalog, there are additional offerings that students may take through the UT Online Consortium (UTOC). The UTOC is the centralized support center for online education throughout The University of Texas System. On the website (http://www.utcoursesonline.org/) you will find a listing of programs and courses, enrollment services, Texas Information System (TIS), academic calendars, campus contacts, course login information, and learning resources. Designated contacts at each campus are available to assist you, as are the student services support staff of the UTOC. With questions please call toll-free: 1-888-TEXAS-16 (1-888-839-2716).

**Veteran Services Center**

The UT Dallas Veteran Services Center serves veterans, reservists, eligible dependents, and active duty military students attending UT Dallas. The VSC promotes veteran-specific opportunities and connects students to on- and off-campus resources. The space includes a study area with computing stations and lounge for veterans to connect with each other. The VSC is located on the lower level of the Eugene McDermott Library (MC 1.204) and is open Monday – Thursday from 8:00 a.m. and Friday from 8:00 a.m. – 5:00 p.m. For more information call 972-883-4913 or go to www.utdallas.edu/veterans...
Appendix I

Rules, Regulations, and Statutory Requirements

A. Student Conduct and Discipline

The University of Texas System (Regents' rule 50101) and The University of Texas at Dallas have rules and regulations for the orderly and efficient conduct of their business. It is the responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. The University of Texas at Dallas administers student discipline within the procedures of recognized and established due process. Procedures are defined and described in Student Discipline and Conduct, UTDSP5003. Copies of these rules and regulations are available to students in the Office of the Dean of Students where staff are available to assist students in interpreting the rules and regulations (SSB 4.400, 972-883-6391).

A student at the university neither loses the rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state, and local laws as well as the Regents' rules, university regulations, and administrative rules. Students are subject to discipline for violating its standards of conduct whether such conduct takes place on or off campus or whether civil or criminal penalties are also imposed for such conduct.

1. Academic Dishonesty. The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrates a high standard of individual honor in his or her scholastic work.

Academic dishonesty includes, but is not limited to, statements, acts or omissions related to applications for enrollment or the awarding of a degree, and/or the submission of work for academic credit that is not properly cited. As a general rule academic dishonesty involves one of the following acts: cheating, plagiarism, collusion and/or falsifying academic records. Students suspected of academic dishonesty are subject to disciplinary proceedings.

2. Campus and Residence Hall Solicitations. In accordance to Regents' rule, 80103 and the Speech and Expression Assembly policy, UTDSP5001 (see http://policy.utdallas.edu/utdsp5001), Subchapter I, section 46.07, no solicitation shall be conducted on any property, street, or sidewalk, or in any building, structure, or facility controlled by The University of Texas System (UT System) or UT Dallas, except by the officers or employees of the university, acting in the course and scope of their authority, or by the Student Government, or by a registered student, faculty, or staff organization of this institution. Such activities must be conducted in a manner that:

a. does not disturb any academic programs or administrative activities of the university or any program or activity that is authorized by UT System;
b. does not interfere with entry to or exit from a building, structure, facility or with the flow of pedestrians or vehicular traffic on sidewalks or streets or at places of ingress and egress to and from property, buildings, or facilities;
c. does not harass or intimidate the person or persons being solicited; and
d. does not violate applicable state, federal, or local laws or regulations.

Non-university groups, individuals, or associations are not permitted to solicit, distribute, or circulate any petitions, handbills, or other literature in university buildings or on the grounds.

All solicitations on the UT Dallas campus must conform to the Regents’ rules and the Speech and Expression Assembly policy, UTDSP5001; copies of which are available in the offices of the President, Executive Vice President and Provost, Vice Presidents, and Deans, and in numerous other administrative offices and the library.

Prior authorization to conduct solicitations or distribution of materials on campus by registered student organizations or by registered faculty or staff organizations must be obtained through the appropriate offices as outlined in the Speech and Expression Assembly policy, UTDSP5001.

Appropriate responses to violations of the above policy are outlined in the Speech and Expression Assembly policy, UTDSP5001, Subchapter C, section 46.49: (a) students will be reported to the Dean of Students, (b) the Office of the Vice President of Academic Affairs and Provost will handle faculty violations; and (c) staff members should be referred to Human Resources Services.

3. **Hazing.** Hazing, submission to hazing, or failure to report first-hand knowledge of the planning or occurrence of specific hazing incidents is prohibited by state law and, in addition to disciplinary actions, is punishable by fines up to $10,000 and confinement in county jail for up to two years. Moreover, any hazing offense that causes the death of another person is a state jail felony. Hazing is defined by state law as, "... any intentional, knowing, or reckless act, occurring on or off the campus of an educational institution, by one person alone or acting with others, directed against a student, that endangers the mental or physical health or safety of a student for the purpose of pledging, being initiated into, affiliating with, holding office in, or maintaining membership in an organization. Any person who reports a specific hazing incident involving a student to the Dean of Students is immune from civil or criminal liability that he/she might otherwise incur as a result of the report. Any persons who have further questions about hazing or activities that may be considered hazing should call the Dean of Students office at (972) 883-6391.

4. **Copyrighted Material.** Unauthorized distribution of copyrighted material, including unauthorized peer-to-peer file sharing, may subject students to civil and criminal penalties. All UT Dallas syllabi are required to include, whether in text or a hyperlink, student conduct policies including a copyright notice. This notice directs students to UT Dallas’ Policy regarding Photocopying Copyrighted Materials (UTDPP1043) and UT System’s copyright website. Further, the University Attorney is identified as the university's contact for copyright questions or concerns. See www.utdallas.edu/copyright.

5. **Other Disciplinary Situations.** Any student organization is subject to disciplinary action or revocation of registration as a student organization for violation of a rule or regulation of The University of Texas System or The University of Texas at Dallas.

**B. Grievance Procedures**

To the extent provided by applicable law, The University of Texas at Dallas is committed to a policy of nondiscrimination on the basis of age, color, disability, gender, race, religion, sexual orientation, national origin, or veteran status in its provision of services, activities, and programs, and in its treatment of students. Students seeking further information about this policy or related complaint procedures for alleged discrimination or sexual harassment should contact the Dean of Students. The dean will follow the procedures for student grievances that are found in **UTDSP5005, Student Grievances Policy.**

Sexual harassment is a form of sex discrimination. Such harassment is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature. Suggestions
that academic or employment reprisals or rewards will follow the refusal or granting of sexual favors also constitute sexual harassment. The full text of the university's Sexual Harassment Policy and Procedure may be found in the Administrative Policies and Procedures Manual, Section D, D11-115.0.

Any student who perceives that he or she has been subject to any form of discrimination as defined above may file a written complaint with the Dean of Students using the following procedures:

1. The complaint must contain the nature of the alleged discrimination, the date on which the alleged discrimination occurred, and other appropriate information as required by the dean.

2. The dean will refer all complaints that name an employee of the university (including graduate assistants and other student employees) as the offender to the Office of Human Resources for investigation and resolution. When the nature of the complaint is discrimination on the basis of disability, the dean will refer the grievance or complaint to the ADA Coordinator who will investigate the complaint under the procedures given in the Administrative Policies and Procedures Manual, Vol. IIA, Section D, page D11-195.0, Americans with Disabilities Act Grievance Policy.

3. With the exceptions noted in subsection (2) above, the student discipline procedure outlined in UTDSP5003 Student Discipline and Conduct will be utilized for complaints that name a student as an alleged offender. Such complaints will be investigated by the dean.

4. As a result of the investigation, the dean will, on the basis of the information presented, determine: a) that the charges of discrimination are without basis, b) that further investigation is required, c) that campus action shall be initiated to alleviate a discriminatory situation, or d) that a hearing will be held.

C. Academic Grievances

Procedures for student grievances are found in university policy UTDSP5005. In attempting to resolve any student grievance regarding grades, evaluations, or other fulfillments of academic responsibility, it is the obligation of the student first to make a serious effort to resolve the matter with the instructor, supervisor, administrator, or committee with whom the grievance originated (hereafter called ‘the respondent’). Individual faculty members retain primary responsibility for assigning grades and evaluations.

PROCEDURES TO APPEAL ACADEMIC DECISIONS

(a) The appeal procedures defined in this section apply to an unresolved grievance concerning some aspect of the student's academic standing at UT Dallas. The intent is to address the grievance of the student in a prompt and orderly fashion. A grievance means a dispute concerning some aspect of the student's academic standing arising from an administrative or faculty decision that the student regards as incorrect or unjust. Grievances include, but are not limited to, disputes over grades, application of degree plan, graduation/degree program requirements, and thesis and dissertation committee and/or adviser actions or decisions. Grievances, as defined in this section, do not include the right to appeal the termination of employment of a teaching assistant or research assistant during the term of the student's appointment. That appeal process is defined and described in UT Dallas Policy UTDP1075 University Policies related to Graduate Student Teaching Assistants and Graduate Student Research Assistants.

(b) A grievance regarding academic concerns will be considered in the following manner:

1. Initial Consideration of Grievance In attempting to resolve any student grievance falling within the scope of this policy, it is the obligation of the student first to make a serious and prompt effort to resolve the matter through discussion with the instructor, supervisor, administrator, or committee chair with whom the grievance originated (hereafter called ‘the respondent’) within sixty (60) calendar days after the date on which the decision was first rendered.

2. Appeal to the Department/Program Head If the matter cannot be resolved in discussions between the student and the respondent, the student grievant can submit a written appeal to the respondent's department/program head with a copy to the respondent clearly specifying the basis of the appeal and stating the remedies the student is seeking. This written appeal MUST be submitted no later than the
sixty-fifth day after the date on which the decision in dispute was first rendered by the respondent. Within ten business days while classes are in session, the respondent will provide both the student and the department/program head with a written response. The department/program head will have 10 business days to review all submissions and provide a written response to the student and respondent (an extension to this timeline may be granted by the school dean for good cause). In determining the validity of the grievance, the department head should be guided by the principle that the burden is on the grievant to show that the decision is arbitrary and capricious. If the department/program head decides that the grievance be granted, he/she will also provide a decision on how to resolve the dispute.

3. **Academic Appeals Panel** If the student is dissatisfied with the decision of the department/program head, the student may submit a written appeal via email or hard copy, within ten business days of the date the decision was sent, to the dean of the school hosting the course, comprehensive or oral examination with a copy to the department/program head (an extension to this timeline may be granted by the dean for good cause). The written appeal by the student to the school dean must clearly state the reasons for the appeal and remedy sought. The dean will appoint an appeals panel. The appeals panel composition will consist of an associate dean of the school in which the grievance originated, acting as chair, two faculty members from the school in which the grievance originated, an associate dean from another school, and a student. The student selected to serve on the panel will be an undergraduate when the grievance is from an undergraduate student and will be a graduate student when the grievance is from a graduate student. The academic panel will review all submissions, obtain additional information and opinions if desired, and provide the student with a written response within twenty business days while classes are in session of the receipt of the student's appeal to the school dean. The appropriate dean of graduate or undergraduate studies will receive a copy of the panel's response. The findings and recommendation of the appeals panel are final.

(c) All parties involved in an academic appeal will be informed about the final disposition of the appeal. Copies of these rules and regulations are available to students in the Office of the Dean of Students where staff are available to assist students in interpreting the rules and regulations.

D. **Privacy Act: Student Records**

1. The student's university record is established and maintained to provide both the student and the university with information regarding the student’s progress while enrolled at the university. Any student enrolled in the university has access to and may inspect those records relating to his or her academic progress, to the extent allowed by the Family Educational Rights and Privacy Act and the Texas Public Information Act. The record is considered to be confidential and may be released only within the limitations clearly defined by university regulations and state and federal statutes or with the student's written permission.

2. The university may release directory information which is defined as public information and includes the student's name, local and permanent address, telephone number, E-mail address, date and place of birth, major field of study, participation in officially recognized activities and sports, photographs, weight and height of members of athletic teams, dates of attendance, degrees, awards and honors received, and the most recent educational agency or institution attended by the student, classification, and expected date of graduation. This information may be printed in various publications of the university such as the student directory, honors list, athletic programs, list of graduating students, or similar documents. Additionally, this information may be released upon request. A student may request that the university not release directory information by completing the appropriate forms during registration. The student must complete the forms each semester.

3. Student records which the university maintains include official university academic and personal records relating to scholastic, disciplinary and fiscal matters as well as records maintained by university agencies and agencies providing services sought voluntarily by students. Students may challenge the contents of educational records and request corrections to inaccurate or misleading information. Any request for correction or explanation of record contents should be presented in writing to the person in charge of the office where the record is maintained.

4. Detailed information pertaining to the content of and handling of student records is contained in the university
policy, Rules on Student Services and Activities of the university’s **Handbook of Operating Procedures**. Students wishing more information about their rights established under the Family Educational Rights and Privacy Act should contact the Office of the Registrar, Student Services Building, (972) 883-2342.

5. The Family Educational Rights and Privacy Act does not extend to research papers and theses authored by students; these documents are available to interested members of the public.

**E. Student-Right-To-Know and Campus Security Act (Clery Act)**

In compliance with the Student-Right-to-Know and Campus Security Act, The University of Texas at Dallas collects specified information on campus crime statistics, campus security policies, and institutional completion or graduation rates. The university publishes an annual report of campus security policies and crime statistics and distributes copies during registration. The university also publishes an online university profile, including graduation rates (see [http://www.utdallas.edu/ospa/stats/UTDProfile.html](http://www.utdallas.edu/ospa/stats/UTDProfile.html)).

**F. Emergency Response, Fire Safety, and Security**

**Emergency Response:** In the event of an emergency or natural disaster the campus community will be notified as prominently as possible through several means of communication. This includes Campus Alert E-mail, the university’s website, campus and local media, text-messaging, Fire Alarm Systems, Indoor Warning System and Outdoor Warning System. For policies and procedures, and reporting requirements please visit [www.utdallas.edu/ehs/emergency](http://www.utdallas.edu/ehs/emergency).

**Fire Safety:** The entire UT Dallas campus fire alarm system is monitored 24-7 through a SimplexGrinnell Information management system. This IMS operates on a fiber optic loop connected to every building fire panel on the Richardson campus. All 30 of UT Dallas’ buildings have primary reporting to the University Police and secondary reporting to EHS and EMS. For policies and procedures please visit [www.utdallas.edu/ehs/firelifesafety](http://www.utdallas.edu/ehs/firelifesafety).

**Gang-free Zones:** Premises owned, rented or leased by The University of Texas at Dallas, and areas within 1,000 feet of the premises are “gang-free” zones. Certain criminal offenses, including those involving gang-related crimes, will be enhanced to the next highest category of offense if committed in a gang-free zone by an individual 17 years or older. See Texas Penal Code, Section 71.028.

**Missing Student Notification:** The purpose of the UT Dallas Missing Persons Policy is to establish procedures for the university’s response to reports of missing students as required by the Higher Education Opportunity Act of 2008. This policy applies to students who reside in on-campus housing. For purposes of this policy, a student may be considered a “missing person” when he or she is absent from the university for more than 24 hours without any known reason. A student may also be deemed missing when his/her absence is contrary to his/her usual pattern of behavior and/or unusual circumstances may have caused the absence. Such circumstances could include, but not be limited to, a report or suspicion that the missing person may be the victim of foul play, has expressed suicidal thoughts, is drug dependent, or has been with persons who may endanger the student's welfare.

All residential students will have the opportunity to designate a confidential contact to be notified by the university no more than 24 hours after the student is determined missing. Instructions will be provided on how to register that person’s contact information. Residential students’ contact information will be registered confidentially, will be accessible only to authorized UT Dallas officials, and may not be disclosed except to law enforcement personnel in furtherance of a missing person investigation.

All reports of missing students must be directed to the UT Dallas Police Department, which shall investigate each report and make a determination about whether the student is missing. In addition, no later than 24
hours after a student is determined missing, UT Dallas will notify the Richardson Police Department, unless the Richardson Police Department was the entity that determined the student to be missing. At that time, if the missing student is under the age of 18 and not emancipated, UT Dallas will also notify the student's custodial parent or guardian.

G. Use of Facilities

Pursuant to the general authority of Texas Education Code Chapter 65, and the specific authority of Texas Education Code Chapter 51, the Board of Regents of The University of Texas System, in Series 80101-80110 of the Rules and Regulations, promulgates rules relating to the use of buildings, grounds, and facilities for purposes other than programs and activities related to the role and mission of the UT System and the component institutions.

The property, buildings, or facilities owned or controlled by the UT System or UT Dallas are not open for assembly, speech, or other activities as are the public streets, sidewalks, and parks. The responsibility of the Board of Regents to operate and maintain an effective and efficient system of institutions of higher education requires that the time, place, and manner of assembly, speech, and other activities on the grounds and in the buildings and facilities of the UT System or UT Dallas be regulated.
2015-16 Undergraduate Catalog

Degree Programs
2015-16 Undergraduate Catalog
Degree Programs

A Synopsis of Undergraduate Degree Program Revisions

The Council of Undergraduate Education has approved the revisions made to the undergraduate degree programs at their March 24, 2015 meeting.

Undergraduate Degree Programs List

- The School of Arts and Humanities (ARHM) created two new concentrations, an Art History concentration within the Art and Performance major, and a Philosophy concentration within the Historical Studies degree. They have been added to the programs list.
- Created an entry for the School of Arts, Technology, and Emerging Communication (ATEC).
  - A new sidebar menu option for the ATEC school will be created within the undergraduate programs category within the web catalog.
  - Relocated the BA degree programs in Arts and Technology and Emerging Media and Communication to the ATEC school from the ARHM school.
  - The ATEC school created Animation and Gaming concentrations within their Arts and Technology major program.
- Added a new double major, a BS degree, in Global Business and International Political Economy, administered jointly by the Naveen Jindal School of Management (JSOM) and the School of Economic, Political and Policy Sciences (EPPS).
- The BS in Telecommunications Engineering will be phased out, pending receipt of all approvals. The degree program will be removed from the Erik Jonsson School of Engineering and Computer Science.
- The BS in Healthcare Management, effective in spring 2015, has been added to the JSOM’s programs listing.
- The double major, BS in Business Administration and Biology, will be renamed to the BS in Healthcare Management and Biology. The double major is administered jointly by JSOM and the School of Natural Sciences and Mathematics (NS&M).
• The double major, BS in Business Administration and Molecular Biology, will also be renamed to the BS in Healthcare Management and Biology. It is also administered jointly by JSOM and NS&M.
• The double majors / double degrees section has been updated accordingly.

Minors Programs List
• A new “centralized” list of undergraduate minors has been created to meet the needs of the students, faculty, advisors, and staff.
• A new minor, Dance, will be added to the minors list for the ARHM school.
• The Drama/Dance minor will be retained for another academic year per ARHM.
• Two new minors, (1) Energy Management and (2) Insurance, will be added to the JSOM’s minors program.
• Under JSOM, the minors of Enterprise Systems and Organizational Behavior will be renamed to Information Technology and Systems and Organizational Behavior/Human Resources Management respectively.

Course Prefix List by School
• Created an entry for the ATEC school.
  o Relocated the prefixes of ATEC and EMAC to the ATEC school from the ARHM listing.
  o Added the ATEM and ISAE prefixes within the ATEC listing.
• Added the ITSS prefix and removed the MIS prefix within the JSOM listing.
• Created an entry for the Honors College.
  o Relocated the prefix of HONS to the Honors College from the Office of Undergraduate Education (OUE).

Course Prefix List by Subject
• Revised the school name to the ATEC school for the ATEC and EMAC prefixes, and added the ATEM and ISAE prefixes.
• Revised the department name from OUE to Honors College for the HONS prefix.
• Added the ITSS prefix and removed the MIS prefix within the JSOM listings.
Undergraduate Degree Programs

- All undergraduate degree programs were reviewed and revised as necessary in order to improve consistent and standardized wording. Errors, including any misspellings, were corrected.
- Additionally, footnote #1 was revised to clarify the university requirement for incoming freshmen to enroll and complete UNIV 1010.
- Fast track language was reviewed in each school, and updated accordingly.
- Undergraduate degree programs’ semester credit hours were reviewed and revised accordingly when needed for clarity.
- Each degree program will include a faculty list that is being developed by the Provost’s Technology Group; the faculty lists will be populated in the web catalog phase.
- Course information data was updated as appropriate throughout all undergraduate programs, such as removing deactivated courses, and revising course titles, course prefixes, and course numbers.

School of Arts and Humanities (ARHM)

- The school’s program preface was revised by having the ATEC’s degree programs (ATEC and EMAC) relocated to the School of Arts, Technology and Emerging Communication (ATEC).
- ATEC’s BA degree programs in Arts and Technology and Emerging Media and Communication were removed from the ARHM’s catalog pages.
- ARHM created two new concentrations, an Art History concentration within the Art and Performance major, and a Philosophy concentration within the Historical Studies degree.
- MUSI 2322, a core course, and ARHM 2344, a component area option core course, were added to the appropriate core curriculum categories to all of the ARHM degree programs, pending the Texas Higher Education Coordinating Board (THECB) approvals. If THECB does not approve the requests, then they will be removed before the web catalog is published.
- ARHM also created a new dance minor, and will retain the Drama/Dance minor for one more academic year. The plan is to remove the Dance component from the Drama minor.

School of Arts, Technology, and Emerging Communication (ATEC)

- A school program preface has been created for the new school.
• The BA degree programs in Arts and Technology and Emerging Media and Communication were relocated to the ATEC’s catalog pages.
• ATEC also created two concentrations, Animation and Gaming, within their Arts and Technology major program.
• ARHM 2344 was added to the CAO category within the core curriculum, pending the Texas Higher Education Coordinating Board (THECB) approvals. If THECB does not approve the requests, then they will be removed before the web catalog is published.

School of Behavioral and Brain Sciences (BBSC)
• All, except the BS in Cognitive Science, will “roll over” to the upcoming 2015 catalog with minor revisions, except for the fast track language which was updated for all BBSC degree programs.
• The prerequisites listed in the Cognitive Science degree program were removed to avoid any inconsistency against the prerequisites listed in course descriptions.

School of Economic, Political and Policy Sciences (EPPS)
• Revisions were made to the EPPS undergraduate programs, including updating program information, fast track language, specific sections’ semester credit hours, and course listings.
• The Criminology and Biology double major’s core courses were updated.
• The major preparatory requirements were updated in the double major of Economics and Finance.
• EPPS added a new double major, a BS degree, in Global Business and International Political Economy, with JSOM.

Erik Jonsson School of Engineering and Computer Science (ENCS)
• Minor revisions were made to the ENCS undergraduate programs, updating program information, fast track language, specific sections’ semester credit hours, and course listings.
• The Computer Engineering department updated their mission and honors program.
• The BS in Telecommunications Engineering will be phased out, pending receipt of all approvals. Upon approval, the degree program will be removed from the 2015-16 catalog.
School of Interdisciplinary Studies (GENS)
- Fast track language was added to the program preface.
- Course listings were revised for the GENS undergraduate programs.
- The Healthcare Studies BS degree was revised by adding specific career tracks within the major requirements.
- Additional information, through appropriate footnotes, was added to the Interdisciplinary Studies majors for clarity.

Naveen Jindal School of Management (JSOM)
- Fast track language was updated and added for all JSOM degrees within the JSOM’s preface.
- JSOM added a new double major, a BS degree, in Global Business and International Political Economy, with EPPS.
- JSOM added the catalog copy for the Healthcare Management BS degree which was effective in spring 2015.
- The double major, BS in Business Administration and Biology, will be renamed to the BS in Healthcare Management and Biology. The double major is administered jointly by JSOM and NS&M.
  - Healthcare management courses were added to the elective requirements.
- The double major, BS in Business Administration and Molecular Biology, will also be renamed to the BS in Healthcare Management and Biology. It is also administered jointly by JSOM and NS&M.
  - Healthcare management courses were added to the elective requirements.
- The major preparatory requirements were updated in the double major of Finance and Economics.
- JSOM created two new minors, (1) Energy Management and (2) Insurance. They also renamed the following minors: Enterprise Systems to Information Technology and Systems and Organizational Behavior to Organizational Behavior/Human Resources Management.
- JSOM revised their Business Administration degree concentrations with the following updates.
  - Added new concentrations:
    - Energy Management
    - Insurance
    - Sales
• Renamed concentrations:
  o Real Estate Management to Real Estate Investment Management
• JSOM revised the finance tracks within the Finance major with the following updates.
• Added new tracks:
  o Financial Institutions track
  o Insurance track
• Renamed tracks:
  o Real Estate Management to Real Estate Investment Management

School of Natural Sciences and Mathematics (NS&M)
• There are 5 degrees, Biology, Chemistry, Geosciences, Mathematics, and Physics that include the UTeach degree options.
  o It was proposed that the UTeach degree options be removed from the primary (basic) degrees. The UTeach coursework and information would be listed as a stand-alone category within the undergraduate programs list.
  o Hyperlinks will be added to the primary degree programs directing users to the UTeach degree options and vice versa.
  o Approved by CUE on 3-24-15.
• Course listings were slightly revised for some of NS&M undergraduate degree programs.
• The Biology and Criminology double major’s core courses were updated.
• The double major, BS in Business Administration and Biology, will be renamed to the BS in Healthcare Management and Biology. The double major is administered jointly by JSOM and NS&M.
  o Healthcare management courses were added to the elective requirements.
• The double major, BS in Business Administration and Molecular Biology, will also be renamed to the BS in Healthcare Management and Biology. It is also administered jointly by JSOM and NS&M.
  o Healthcare management courses were added to the elective requirements.
• The department name of Chemistry has been revised to “the department of Chemistry and Biochemistry” as appropriate within the NS&M degree programs, especially the Biochemistry and Chemistry degree programs.
Honors College
- Requested to have their web catalog page (Collegium V) be relocated from the 1st 40 policies under the Curriculum policies, and be listed with the undergraduate degree programs.
  - Approved by CUE on March 24, 2015.

Undergraduate Certificate Programs
- The Teacher Certification Program has been revised substantively by the Teacher Development Center team. Note: the tracking change feature was not used.
- The Certificate on Biomedical Sciences had minor revisions.
The degree requirements for each program are presented in the same format. There are course requirements in three broad areas: Core Curriculum, program major, and electives. Each program may recommend specific courses to be used in meeting core curriculum requirements. Under major requirements, each program lists the required major preparatory courses, major core courses to be taken by all students, and major related courses. The related courses section defines options or concentrations within the major. Elective requirements vary by program. Students may view semester class schedules at coursebook.utdallas.edu. Class syllabi and faculty vitae are available at coursebook.utdallas.edu.

School of Arts and Humanities

- Bachelor of Arts in Art and Performance
- Bachelor of Arts in Art and Performance with Art History Concentration
- Bachelor of Arts in Art and Performance with Communication Concentration
- Bachelor of Arts in Art and Performance with Drama / Dance Concentration
- Bachelor of Arts in Art and Performance with Film Concentration
- Bachelor of Arts in Art and Performance with Music Concentration
- Bachelor of Arts in Art and Performance with Visual Arts Concentration
- Bachelor of Arts in Arts and Technology
- Bachelor of Arts in Emerging Media and Communication
- Bachelor of Arts in Historical Studies
- Bachelor of Arts in Historical Studies with Philosophy Concentration
- Bachelor of Arts in Literary Studies

School of Arts, Technology, and Emerging Communication

- Bachelor of Arts in Arts and Technology
- Bachelor of Arts in Arts and Technology with Animation Concentration
- Bachelor of Arts in Arts and Technology with Gaming Concentration
- Bachelor of Arts in Emerging Media and Communication

School of Behavioral and Brain Sciences

- Bachelor of Science in Child Learning and Development
• Bachelor of Science in Cognitive Science
• Bachelor of Science in Neuroscience
• Bachelor of Science in Psychology
• Bachelor of Science in Speech-Language Pathology and Audiology

School of Economic, Political and Policy Sciences

• Bachelor of Arts in Criminology
• Bachelor of Arts in Criminology and Biology (Double Major)
• Bachelor of Arts in Economics
• Bachelor of Science in Economics
• Bachelor of Science in Economics and Finance (Double Major)
• Bachelor of Science in Geospatial Information Sciences
• Bachelor of Science in Global Business and International Political Economy
• Bachelor of Arts in International Political Economy
• Bachelor of Science in International Political Economy
• Bachelor of Arts in Political Science
• Bachelor of Science in Public Affairs
• Bachelor of Arts in Sociology

Erik Jonsson School of Engineering and Computer Science

• Bachelor of Science in Biomedical Engineering
• Bachelor of Science in Computer Engineering
• Bachelor of Science in Computer Science
• Bachelor of Science in Electrical Engineering (BSEE)
• Bachelor of Science in Mechanical Engineering
• Bachelor of Science in Software Engineering
• Bachelor of Science in Telecommunications Engineering (BSTE)

School of Interdisciplinary Studies

• Bachelor of Arts in American Studies
• Bachelor of Science in Healthcare Studies
• Bachelor of Arts in Interdisciplinary Studies
• Bachelor of Science in Interdisciplinary Studies

Naveen Jindal School of Management

• Bachelor of Science in Accounting
• Bachelor of Science in Business Administration
School of Natural Sciences and Mathematics

- Bachelor of Science in Actuarial Science
- Bachelor of Science in Biochemistry
- Bachelor of Arts in Biology¹
- Bachelor of Science in Biology¹
- Bachelor of Science in Biology and Healthcare Management (Double Major)¹
- Bachelor of Arts in Biology and Criminology (Double Major)¹
- Bachelor of Arts in Chemistry¹
- Bachelor of Science in Chemistry¹
- Bachelor of Science in Geosciences
- Bachelor of Science in Mathematics¹
- Bachelor of Science in Molecular Biology
- Bachelor of Science in Molecular Biology and Healthcare Management (Double Major)¹
- Bachelor of Arts in Physics¹
- Bachelor of Science in Physics¹

1. Fast Track program is available

Double Majors / Double Degrees

The University of Texas at Dallas offers the following prescribed double majors:

- Biology (BA) and Criminology (BA)
- Global Business (BS) and International Political Economy (BS)
- Healthcare Management (BS) and Biology (BS)
- Economics (BS) and Finance (BS)
- Molecular Biology (BS) and Healthcare Management (BS)
A student may earn a double major or a double degree but not both. A student may earn a double major or a second baccalaureate degree but not both.

For additional information, go to Other Degree Requirements at catalog.utdallas.edu/2015/undergraduate/curriculum/other-degree-requirements.

For information concerning honors, please see Graduation with Honors at catalog.utdallas.edu/2015/undergraduate/policies/graduation#honors.
Undergraduate Minors

Some academic units designate a set of classes that constitute a minor in that academic unit. The requirements of the minor are set by the faculty of the academic unit offering the minor, not by the academic unit of the student's major field of study. Semester credit hours may not be used to satisfy both the major and minor requirements; however, elective semester credit hours or major preparatory classes may be used to satisfy the minor. At least one-third of the semester credit hours for a minor must be taken at The University of Texas at Dallas.

Students may consult with an academic advisor in their major field of study as they select recommended courses to satisfy the minor's requirements. Students may view semester class schedules at coursebook.utdallas.edu. Class syllabi and faculty vitae are available at coursebook.utdallas.edu.

School of Arts and Humanities

- Art History
- Asian Studies
- Communication
- Creative Writing
- Dance
- Drama/Dance
- History
- Literature
- Medical and Scientific Humanities
- Music
- Performing Arts
- Philosophy
- Spanish and Hispanic Area Studies
- Visual Arts

School of Behavioral and Brain Sciences
• Child Development
• Cognitive Science
• Neuroscience
• Psychology
• Speech Language Pathology and Audiology

School of Economic, Political and Policy Sciences
• Criminology
• Economics
• Geography
• Geospatial Information Sciences
• International Political Economy
• Political Science
• Public Affairs
• Public Health
• Sociology

Erik Jonsson School of Engineering and Computer Science

Department of Computer Science
• Computer Science
• Information Assurance
• Software Engineering

Department of Materials Science and Engineering
• Nanoscience and Technology

School of Interdisciplinary Studies
• American Studies
• Environmental Studies
• Exercise Sciences
• Gender Studies
• Healthcare Studies
Naveen Jindal School of Management

- Accounting
- Business Administration
- Business Intelligence and Analytics
- Energy Management
- Enterprise Systems
- Finance
- Information Technology and Systems
- Innovation and Entrepreneurship
- Insurance
- Marketing
- Organizational Behavior/Human Resources Management

School of Natural Sciences and Mathematics

- Actuarial Science
- Biology
- Biomolecular Structure
- Chemistry
- Geosciences
- Mathematics
- Microbiology
- Molecular and Cell Biology
- Neurobiology
- Physics
- Statistics
List of Undergraduate Courses by School

Click on the desired course prefix to view course descriptions

### School of Arts and Humanities

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Deleted: ATEC

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School of Arts, Technology, and Emerging Communication

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School of Behavioral and Brain Sciences

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<td>Speech-Language Pathology &amp; Audiology</td>
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Erik Jonsson School of Engineering and Computer Science

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### School of Economic, Political and Policy Sciences

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### School of Interdisciplinary Studies

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### Naveen Jindal School of Management

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School of Natural Sciences and Mathematics

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Honors College

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Office of Undergraduate Education

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<td>UNIV</td>
<td>University Course</td>
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# List of Undergraduate Courses by Course Subject (Prefix)

Click on the desired course prefix to view course descriptions

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<th>Course Prefix</th>
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<th>School</th>
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</table>
The School of Arts and Humanities offers baccalaureate degrees in Art and Performance, Historical Studies, and Literary Studies, Arts and Technology, and Emerging Media and Communication. The first three majors integrate traditional courses of study in the studio arts, vocal and instrumental music, dance and theater; history and philosophy; and American, Spanish, and other literatures.

Students who complete the major in Art and Performance pursue an interdisciplinary study of the arts by selecting among courses in historical context, studio practice, performance ensemble, creative writing, communication, and ideas and interpretation of the arts. Students may also choose to enroll in courses associated with concentrations in art history, communication, drama/dance, film, music, or visual arts.

Encompassing coursework in history and philosophy, Historical Studies majors design a distinctive program of study around their interests, such as themes, topics, time periods, and historical or philosophical approaches to subject matter. Students may also choose to enroll in courses associated with the philosophy concentration. The literary Studies program, which brings together writers and scholars dedicated to the study of literature and culture in an international and interdisciplinary context, offers students the opportunity to explore a wide range of literary traditions, critical approaches, and theoretical debates.

The Arts and Technology (ATEC) degree emphasizes the mutually productive interaction of technology with the arts, with specific emphasis on the interplay of visual art, music, and narrative with the new modes of expression and communication that have emerged from the convergence of computing and media technologies. The program stresses not only the creation but also the potential applications and cultural implications of interactive media.

The Emerging Media and Communication (EMAC) degree addresses the importance of understanding the social and cultural implications of an "always on" world. Through a range of disciplines including media studies, communication, psychology, art, history, writing, philosophy, and sociology, students analyze the significance and impact of digital media on our major social structures and cultural institutions, working to understand how this affects what it means to be a citizen in the digital world. Through working on digital media projects, EMAC majors develop critical, creative, and collaborative skills in web design, digital aesthetics, writing and research, social media, and platform and application development.

Students in the School of Arts and Humanities are encouraged to explore the boundaries and the interrelationships of the major fields of study within the school. Consistent with this focus on the integration of the arts and humanities and a commitment to interdisciplinary education, the School has no conventional departments. Rather, its curriculum is designed to allow study that crosses and transforms traditional disciplinary lines.

Each student in the School consults regularly with an advisor, who helps the student design an integrated program of coursework. At least 42 semester credit hours of upper-division coursework of the total of 51 upper-division semester credit hours required to complete the major are completed within the major and related fields. All students who major in Art and Performance, Historical Studies, or Literary Studies complete a 3-semester credit hour core course, A_HM 3342: Advanced Interdisciplinary Studies in the Arts and Humanities, that introduces the methods, strategies, and theories of inquiry and interpretation that are elaborated in subsequent arts and humanities courses. In addition, all students are required to enroll in an upper-division writing course associated with their major. Students also complete either 3, 6, or 12 semester credit hours of major core coursework.
Students will additionally complete a series of major requirements and electives, and the remaining semester credit hours in related coursework from within the School of Arts and Humanities.

1. The Arts and Technology Major requires only 39 semester credit hours in required upper-division coursework and prescribed electives.

Teacher Certification

Students interested in teaching in secondary schools can achieve Texas Teacher Certification in English and/or History and/or Composite Social Studies as part of their majors in either Literary Studies or Historical Studies. Immediately after being admitted to the university, interested students should meet with an advisor in the Teacher Development Center to receive a certification plan and with an Arts and Humanities advisor in Literary Studies or Historical Studies to receive a degree plan. Further details may be found in the Teacher Certification section of the catalog.

Fast Track Baccalaureate/Master's Degrees

The Fast Track program is designed to permit exceptional undergraduate students in Arts and Humanities majors to begin work on the master's degree before graduation. Qualified seniors at UT Dallas, who have completed at least 30 semester credit hours of upper-division work and the core courses in their major, may take up to 12 semester credit hours of approved graduate courses in Arts and Humanities during their senior year and apply these semester credit hours to their undergraduate degree plans as either major and related courses or electives. The Fast Track courses will also be used to satisfy up to 12 graduate semester credit hours towards the Master's degree.

For further information on the Fast Track program, see the Associate Dean for Undergraduate Education of the School of Arts and Humanities.

Minors

To minor in the Arts and Humanities, students must take a minimum of 18 semester credit hours for the minor, 12 of which must be upper-division semester credit hours. Students who take a minor will be expected to meet the normal prerequisites in courses making up the minor, and should maintain a minimum GPA of 2.000 on a 4.00 scale (C average). Core courses offered by the school may count as lower-division semester credit hours toward the minor. Students may choose to minor in any of the following fields of study:

- Art History
- Asian Studies
- Communication
- Creative Writing
- Dance
- Drama/Dance
- History
Students may contact their academic advisor for a list of the courses that satisfy each minor. [http://catalog.utdallas.edu/2015/undergraduate/programs/ah/minors](http://catalog.utdallas.edu/2015/undergraduate/programs/ah/minors)

Related Minor Areas:

Minor in Gender Studies (18 semester credit hours)

The Gender Studies minor is 18 semester credit hours. The courses consist of GST 2300, two other Gender Studies core courses, and nine semester credit hours of approved Gender Studies electives.

Faculty


Professors Emeritus: Gerald L. Soliday, Deborah A. Stott

Clinical Professor: Dennis Walsh

Associate Professors: Sean Cotter, Frank Dufour, Monica Evans, Michael Farmer, John C. Gooch, Scot Gresham, Charles Hatfield, Shelley D. Jane, Patricia H. Michaelson, Cihan Muslu, Peter Park, Monica Rankin, Venus E. Reese, Natalie Gowing, Eric Schlereth, Andrew Scott, Charissa Terranova, Daniel Wickberg, Michael Wilson

Clinical Associate Professors: Michele Hanlon, Maribeth Schlobohm, Winston Stone, Angela M. Lee

Assistant Professors: Matt Brown, Jessica C. Murphy, Mark Rosen, Shilyh Warren

Clinical Assistant Professors: Kenneth Brewer, Peter (Jay) Ingrao, Janet Johnson, Carrie Lambert, Michael McVay, Sabrina Starnaman, Michael Stephens, Lorraine Tady

Visiting Assistant Professors: Kimberly Hiill, Mona Kasra
Distinguished Research Scholar: Bonnie Pitman

Senior Lecturers II: Eric Carlson, Diane Goode

Senior Lecturers: Zafar Anjum, Barbara Baker, Karen Baynham, Steve Billingslea, Filip Celander, Diane Durant, Kelly P. Durbin, Kathryn C. Evans, Janeece Glauser, George Henson, Melissa Hernandez-Katz, Thomas M. Lambert, Wenqi Li, Kathy Lingo, Mary Medreck, Greg L. Metz, Christopher (Chris) Ryan, Monica M. Saba, Linda Salisbury, Jeffrey Schulze, Betty H. Wiesepape
School of Arts and Humanities

Art and Performance (BA)

Students who complete the major in Art and Performance (AP) pursue an interdisciplinary study of the arts by selecting among courses in historical context, studio practice, performance ensemble, creative writing, and ideas and interpretation of the arts. In the AP core course, students will experience the theory and practice of the arts in a workshop setting and, in studio or ensemble courses, will gain practical experience in at least one area of the visual or performing arts or creative writing. Courses in the historical context and interpretation of the arts will enable students to understand how style, subject matter, and materials may respond to different motivations and purposes. Students may also choose to enroll in courses associated with concentrations in communication, drama/dance, film, music, or visual arts.

Since the following catalog course descriptions are very general, students are urged to consult the detailed course descriptions available on the web site for the School of Arts and Humanities.

Unless otherwise noted, courses in Art and Performance are open to all students in the university.

Bachelor of Arts in Art and Performance

Degree Requirements (120 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

Choose one course from the following:

MATH 1306 College Algebra for the Non-Scientist
MATH 1314 College Algebra

Select any 3 semester credit hours from Mathematics core courses

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses

Language, Philosophy and Culture: 3 semester credit hours
Choose one course from the following:

**HUMA 1301** Exploration of the Humanities
**IT 2331** Masterpieces of World Literature
**PHIL 1301** Introduction to Philosophy
**PHIL 2316** History of Philosophy I
**PHIL 2317** History of Philosophy II

Select any 3 semester credit hours from Language, Philosophy and Culture core courses

**Creative Arts: 3 semester credit hours**

Choose one course from the following:

**ARTS 1301** Exploration of the Arts
**AHST 1303** Survey of Western Art History: Ancient to Medieval
**AHST 1304** Survey of Western Art History: Renaissance to Modern
**AHST 2331** Understanding Art
**DANC 1310** Understanding Dance
**DRAM 1310** Understanding Theater
**FILM 2332** Understanding Film
**MUSI 1306** Understanding Music

**MUSI 2322** Music in Western Civilization (Pending coordinating board (CB) approval.)

**American History: 6 semester credit hours**

Choose two courses from the following:

**HIST 1301** U.S. History Survey to Civil War
**HIST 1302** U.S. History Survey from Civil War
**HIST 2301** History of Texas
**HIST 2330** Themes and Ideas in American History
**HIST 2332** Civil War and Reconstruction

**Government / Political Science: 6 semester credit hours**

**GOVT 2305** American National Government
**GOVT 2306** State and Local Government

**Social and Behavioral Sciences: 3 semester credit hours**

Select any 3 semester credit hours from Social and Behavioral Sciences core courses

**Component Area Option: 6 semester credit hours**
Choose 2 courses from the following or other Component Area Option courses:

- ARHM 2340 Creativity
- ARHM 2341 Global Media
- ARHM 2342 Connections in the Arts and Humanities
- ARHM 2343 Science and the Humanities
- ARHM 2344 World Cultures (Pending coordinating board (CB) approval.)

II. Major Requirements, Lower-Division: 6-7 semester credit hours, beyond Core Curriculum

- One semester credit hour:
  - ARHM 1100 Freshman Seminar
  - UNIV 1010 Freshman Seminar

- 3 semester credit hours of lower-division preparatory course

Choose two courses from the following: 6 semester credit hours beyond Core Curriculum:

- AHST 1303 Survey of Western Art History: Ancient to Medieval
- AHST 1304 Survey of Western Art History: Renaissance to Modern
- AHST 2331 Understanding Art
- ARTS 1301 Exploration of the Arts
- DANC 1310 Understanding Dance
- DRAM 1310 Understanding Theater
- FILM 2332 Understanding Film
- HUMA 1301 Exploration of the Humanities
- MUSI 1306 Understanding Music

III. Major Requirements, Upper-Division: 42 semester credit hours

Major Core Courses: 9 semester credit hours

- AP 3300 Elements of Art and Performance
- ARHM 3342 Advanced Interdisciplinary Studies in the Arts and Humanities
- AP 3340 Writing in the Arts or CRHM 3300 Reading Media Critically

Major Distribution and Elective Courses: 24 semester credit hours

- 3 semester credit hours of upper-division Historical Context courses
- 6 semester credit hours of upper-division courses from Studio and Ensemble courses
- 15 semester credit hours of upper-division Art and Performance electives
Major-Related Courses: 9 semester credit hours

Students may select any combination of upper-division courses in Arts and Humanities, Humanities, Historical Studies, Philosophy, Literature, and/or Languages.

IV. Elective Requirements: 29-30 semester credit hours

Free Electives: 29-30 semester credit hours

Both upper- and lower-division courses may be used as electives, but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

Art and Performance with Art History Concentration
(BA)

Bachelor of Arts in Art and Performance with Art History Concentration

Degree Requirements (120 semester credit hours)\(^1\)

I. Core Curriculum Requirements: 42 semester credit hours\(^2\)

**Communication:** 6 semester credit hours

- COMM 1311 Survey of Oral and Technology-based Communication
- RHET 1302 Rhetoric

**Mathematics:** 3 semester credit hours

One of the following:

- MATH 1306 College Algebra for the Non-Scientist
- MATH 1314 College Algebra

Choose any 3 semester credit hours from Mathematics core courses

**Life and Physical Sciences:** 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses

**Language, Philosophy and Culture:** 3 semester credit hours

Choose one course from the following:

\[^{1}\] Deleted: [Comment [MV8]]: Should be listed as 29-30 to compensate for the 1 SCH of ARHM1100 for transfer students.

\[^{2}\] Formatted: Strikethrough [Comment [SDL9]]: Please make the change

\[^{3}\] Deleted: [Comment [MV8]]: Should be listed as 29-30 to compensate for the 1 SCH of ARHM1100 for transfer students.
HUMA 1301 Exploration of the Humanities

LIT 2331 Masterpieces of World Literature

PHI 1301 Introduction to Philosophy

PHI 2316 History of Philosophy I

PHI 2317 History of Philosophy II

Select any 3 semester credit hours from Language, Philosophy and Culture core courses

Creative Arts: 3 semester credit hours

Choose one course from the following:

A TS 1301 Exploration of the Arts

AHST 1303 Survey of Western Art History: Ancient to Medieval

AHST 1304 Survey of Western Art History: Renaissance to Modern

AHST 2331 Understanding Art

DA C 1310 Understanding Dance

D AM 1310 Understanding Theater

FL M 2332 Understanding Film

MUSI 1306 Understanding Music

MUSI 2322 Music in Western Civilization (Pending coordinating board (CB) approval.)

American History: 6 semester credit hours

Choose two courses from the following:

HIST 1301 U.S. History Survey to Civil War

HIST 1302 U.S. History Survey from Civil War

HIST 2301 History of Texas

HIST 2330 Themes and Ideas in American History

HIST 2332 Civil War and Reconstruction

Government / Political Science: 6 semester credit hours

GOVT 2305 American National Government

GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

Select any 3 semester credit hours from Social and Behavioral Sciences core courses

Component Area Option: 6 semester credit hours

Choose two courses from the following or other Component Area Option courses:

A HM 2340 Creativity
II. Major Requirements, Lower-Division: 6-7 semester credit hours beyond Core Curriculum

- One semester credit hour:
  - ARHM 1100 Freshman Seminar
  - UNIV 1010 Freshman Seminar

- Over-division preparatory courses (6 semester credit hours beyond Core Curriculum)
  - AHST 1303 Survey of Western Art History: Ancient to Medieval
  - AHST 1304 Survey of Western Art History: Renaissance to Modern

III. Major Requirements, Upper-Division: 42 semester credit hours

- Major Core Courses: 9 semester credit hours
  - AP 3300 Elements of Art and Performance
  - ARHM 3342 Advanced Interdisciplinary Studies Topics in the Arts and Humanities
  - AP 3340 Writing in the Arts or COMM 3300 Reading Media Critically

- Major Distribution and Elective Courses: 24 semester credit hours
  - 3 semester credit hours of upper-division Historical Context courses
  - 6 semester credit hours of upper-division courses from Studio and Ensemble courses
  - 15 semester credit hours of upper-division Art and Performance electives

- Major-Related Courses: 9 semester credit hours
  - Students may select any combination of upper-division courses in Arts and Humanities, Humanities, Historical Studies, Philosophy, literature, and/or languages.

IV. Elective Requirements: 29-30 semester credit hours

- Free Electives: 29-30 semester credit hours
  - Both upper- and lower-division courses may be used as electives, but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.
Art and Performance with Communication Concentration (BA)

Bachelor of Arts in Art and Performance with Communication Concentration

Degree Requirements (120 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours
- COMM 1311 Survey of Oral and Technology-based Communication
- RHET 1302 Rhetoric

Mathematics: 3 semester credit hours
Choose one course from the following:
- MATH 1306 College Algebra for the Non-Scientist
- MATH 1314 College Algebra
Select any 3 semester credit hours from Mathematics core courses

Life and Physical Sciences: 6 semester credit hours
Select any 6 semester credit hours from Life and Physical Sciences core courses

Language, Philosophy and Culture: 3 semester credit hours
Choose one course from the following:
- HUMA 1301 Exploration of the Humanities
- LIT 2331 Masterpieces of World Literature
- PHIL 1301 Introduction to Philosophy
- PHIL 2316 History of Philosophy I
- PHIL 2317 History of Philosophy II
Select any 3 semester credit hours from Language, Philosophy and Culture core courses

Creative Arts: 3 semester credit hours
Choose one course from the following:
- ARTS 1301 Exploration of the Arts
- AHST 1303 Survey of Western Art History: Ancient to Medieval
AHST 1304 Survey of Western Art History: Renaissance to Modern
AHST 2331 Understanding Art
DA_C 1310 Understanding Dance
D_AM 1310 Understanding Theater
Fi_M 2332 Understanding Film
MUSI 1306 Understanding Music
MUSI 2322 Music in Western Civilization (Pending coordinating board (CB) approval.)

American History: 6 semester credit hours

Choose two courses from the following:
HIST 1301 U.S. History Survey to Civil War
HIST 1302 U.S. History Survey from Civil War
HIST 2301 History of Texas
HIST 2330 Themes and Ideas in American History
HIST 2332 Civil War and Reconstruction

Government / Political Science: 6 semester credit hours
GOVT 2305 American National Government
GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
Select any 3 semester credit hours from Social and Behavioral Sciences core courses

Component Area Option: 6 semester credit hours

Choose two courses from the following or other Component Area Option courses:
A_HM 2340 Creativity
A_HM 2341 Global Media
A_HM 2342 Connections in the Arts and Humanities
A_HM 2343 Science and the Humanities
A_HM 2344 World Cultures (Pending coordinating board (CB) approval.)

II. Major Requirements, Lower-Division: 6-7 semester credit hours beyond Core Curriculum

One semester credit hour:
A_HM 1100 Freshman Seminar
U_IV 1010 Freshman Seminar

Comment [DDC16]: Added per 2.19.15 email
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Comment [DDC17]: Added per 2.19.15 email
Deleting: T and of

Comment [DDC18]: I believe we should keep it at 6-7 so it is understood they have to get this amount beyond core. 6 is for transfer and 7 is for freshmen. I put a note on the elective section as well so that it alternates between 29-30 for that 1SCH. Transfer students are not required to take ARHM1100 so they will need to pick up the additional SCH elsewhere.
Lower-division preparatory courses from one of the following (3 semester credit hours):

- **COMM 2313** Public Speaking
- **COMM 2314** Oral Interpretation
- **COMM 2317** Topics in Communication
- **DRAM 1351** Acting 1
- **DRAM 1352** Acting 2
- **DRAM 2372** Improvisation
- **DRAM 2373** Languages of the Body

Choose one course from the following: 3 semester credit hours beyond Core Curriculum:

- **AHST 1303** Survey of Western Art History: Ancient to Medieval
- **AHST 1304** Survey of Western Art History: Renaissance to Modern
- **AHST 2331** Understanding Art
- **ARTS 1301** Exploration of the Arts
- **DANC 1310** Understanding Dance
- **DRAM 1310** Understanding Theater
- **FILM 2332** Understanding Film
- **HUMA 1301** Exploration of the Humanities
- **MUSI 1306** Understanding Music

III. Major Requirements, Upper-Division: 42 semester credit hours

**Major Core Courses: 9 semester credit hours**

- **AP 3300** Elements of Art and Performance
- **AHM 3342** Advanced Interdisciplinary Studies in the Arts and Humanities
- **COMM 3300** Reading Media Critically

**Major Distribution and Elective Courses: 24 semester credit hours**

3 semester credit hours of upper-division Historical Context courses:

- **COMM 3351** History and Theory of Communication

6 semester credit hours of upper-division courses from the following communication performance courses:

- **COMM 3301** Business and Professional Communication
- **COMM 3311** Interpersonal Communication
- **COMM 3320** Readers Theater
- **COMM 4340** Small Group Communication

Comment [DDC19]: COMM 2315 Oral Interpretation was added, however, Oral Interpretation is actually COMM 2314.

Comment [DDC20]: COMM2311 renumbered to COMM2317. Reordered to fit numerically.

Comment [DDC21]: The core courses from this list should not be double counted as core and Lower-Division SCH. If a student takes a course from this list for their core then they will need to take 1 additional course from the list to count as Lower-Division SCH.

Comment [DDC22]: Wording changed per Nov 11, 2014 email

Comment [DDC23]: See Nov 11, 2014 - agreed to list ARTS 1301 and HUMA 1301
COMM 4313 Advanced Public Speaking

15 semester credit hours of upper-division Art and Performance electives

COMM 4360 Communication Ethics
COMM 4314 Persuasion

and 9 semester credit hours of COMM Electives

Major-Related Courses: 9 semester credit hours

Students may select any combination of upper-division courses in Arts and Humanities, Humanities, Historical Studies, Philosophy, literature, and/or languages.

IV. Elective Requirements: 29-30 semester credit hours

Free Electives: 29-30 semester credit hours

Students may select any combination of upper-division courses in Arts and Humanities, Humanities, Historical Studies, Philosophy, literature, and/or languages. Both upper- and lower-division courses may be used as electives, but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

Art and Performance with Drama/Dance Concentration (BA)

Bachelor of Arts in Art and Performance with Drama/Dance Concentration

Degree Requirements (120 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication

RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

Choose one course from the following:

MATH 1306 College Algebra for the Non-Scientist

MATH 1314 College Algebra

Select any 3 semester credit hours from Mathematics core courses

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses
Language, Philosophy and Culture: 3 semester credit hours

Choose one course from the following:

- HUMA 1301 Exploration of the Humanities
- LIT 2331 Masterpieces of World Literature
- PHIL 1301 Introduction to Philosophy
- PHIL 2316 History of Philosophy I
- PHIL 2317 History of Philosophy II

Select any 3 semester credit hours from Language, Philosophy and Culture core courses

Creative Arts: 3 semester credit hours

Choose one course from the following:

- ARTS 1301 Exploration of the Arts
- AHST 1303 Survey of Western Art History: Ancient to Medieval
- AHST 1304 Survey of Western Art History: Renaissance to Modern
- AHST 2331 Understanding Art
- DANC 1310 Understanding Dance
- DRAM 1310 Understanding Theater
- FILM 2332 Understanding Film
- MUSI 1306 Understanding Music
- MUSI 2322 Music in Western Civilization (Pending coordinating board (CB) approval.)

American History: 6 semester credit hours

Choose two courses from the following:

- HIST 1301 U.S. History Survey to Civil War
- HIST 1302 U.S. History Survey from Civil War
- HIST 2301 History of Texas
- HIST 2330 Themes and Ideas in American History
- HIST 2332 Civil War and Reconstruction

Government / Political Science: 6 semester credit hours

- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

Select any 3 semester credit hours from Social and Behavioral Sciences core courses
Component Area Option: 6 semester credit hours

Choose two courses from the following or other Component Area Option courses:

- ARHM 2340 Creativity
- ARHM 2341 Global Media
- ARHM 2342 Connections in the Arts and Humanities
- ARHM 2343 Science and the Humanities
- ARHM 2344 World Cultures (Pending coordinating board (CB) approval.)

II. Major Requirements, Lower-Division: 9-10 semester credit hours beyond Core Curriculum

One semester credit hour:

- ARHM 1100 Freshman Seminar
- UNIV 1010 Freshman Seminar

6 semester credit hours from the following:

- DRAM 1351 Acting 1
- DRAM 1352 Acting 2
- DRAM 1354 Music Theater Workshop
- DRAM 2372 Improvisation
- DRAM 2373 Languages of the Body
- DANC 2321 Stretch, Conditioning, Alignment
- DANC 2331 Dance Technique 1
- DANC 2332 Modern Dance 1
- DANC 2333 Ballet 1
- DANC 2334 Jazz Dance 1
- DANC 2335 Ballet 1

Choose one course from the following: 3 semester credit hours beyond Core Curriculum:

- AHST 1303 Survey of Western Art History: Ancient to Medieval
- AHST 1304 Survey of Western Art History: Renaissance to Modern
- AHST 2333 Understanding Art
- AHST 1305 Exploration of the Arts
- DANC 1310 Understanding Dance
- DANC 1310 Understanding Theater
- DANC 2332 Understanding Film
- HUMA 1301 Exploration of the Humanities
- MUSI 1301 Understanding Music

Comment [DDC27]: Added per 2.19.15 email

Comment [DDC28]: I believe we should keep it at 9-10 so it is understood they have to get this amount beyond core. 9 is for transfer and 10 is for freshmen. I put a note on the elective section as well so that it alternates between 26-27 for that 1SCH. Transfer students are not required to take ARHM1100 so they will need to pick up the additional SCH elsewhere.

Comment [DDC29]: The core courses from this list should not be double counted as core and Lower-Division SCH. If a student takes a course from this list for their core then they will need to take 1 additional course from the list to count as Lower-Division SCH.

Comment [DDC30]: See Nov 11, 2014 – agreed to list ARTS 1301 and HUMA 1301

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III. Major Requirements, Upper-Division: 42 semester credit hours

Major Core Courses: 9 semester credit hours
- AP 3300 Elements of Art and Performance
- HM 3342 Advanced Interdisciplinary Studies in the Arts and Humanities
- AP 3340 Writing in the Arts or COMM 3300 Reading Media Critically

Major Distribution and Elective Courses: 24 semester credit hours
- 3 semester credit hours of upper-division Historical Context courses
- 6 semester credit hours of 3000-level courses Drama or Dance Studio and Ensemble courses
- 3 semester credit hours of Drama or Dance electives
- 12 semester credit hours of upper-division Art and Performance electives

Major-Related Courses: 9 semester credit hours
Students may select any combination of upper-division courses in Arts and Humanities, Humanities, Historical Studies, Philosophy, Literature, and/or Languages.

IV. Elective Requirements: 26-27 semester credit hours

Free Electives: 26-27 semester credit hours
Both upper- and lower-division courses may be used as electives, but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

Art and Performance with Film Concentration (BA)

Bachelor of Arts in Art and Performance with Film Concentration

Degree Requirements (120 semester credit hours)1

I. Core Curriculum Requirements: 42 semester credit hours2

Communication: 6 semester credit hours
- COMM 1311 Survey of Oral and Technology-based Communication
- HET 1302 rhetoric

Mathematics: 3 semester credit hours
Choose one course from the following:
MATH 1306  College Algebra for the Non-Scientist
MATH 1314  College Algebra

Select any 3 semester credit hours from Mathematics core courses

Life and Physical Sciences: 6 semester credit hours
Select any 6 semester credit hours from Life and Physical Sciences core courses

Language, Philosophy and Culture: 3 semester credit hours
Choose one course from the following:
HUMA 1301  Exploration of the Humanities
LIT 2331  Masterpieces of World Literature
PHI 1301  Introduction to Philosophy
PHI 2316  History of Philosophy I
PHI 2317  History of Philosophy II

Select any 3 semester credit hours from Language, Philosophy and Culture core courses

Creative Arts: 3 semester credit hours
Choose one course from the following:
ARTS 1301  Exploration of the Arts
AHST 1303  Survey of Western Art History: Ancient to Medieval
AHST 1304  Survey of Western Art History: Renaissance to Modern
AHST 2331  Understanding Art
DANC 1310  Understanding Dance
DRAM 1310  Understanding Theater
FILM 2332  Understanding Film
MUSI 1306  Understanding Music
MUSI 2322  Music in Western Civilization (Pending coordinating board (CB) approval.)

American History: 6 semester credit hours
Choose two courses from the following:
HIST 1301  U.S. History Survey to Civil War
HIST 1302  U.S. History Survey from Civil War
HIST 2301  History of Texas
HIST 2330  Themes and Ideas in American History
HIST 2332  Civil War and Reconstruction

Government / Political Science: 6 semester credit hours
Social and Behavioral Sciences: 3 semester credit hours
Select any 3 semester credit hours from Social and Behavioral Sciences core courses

Component Area Option: 6 semester credit hours
Choose two courses from the following or other Component Area Option courses:

A: HM 2340 Creativity
A: HM 2341 Global Media
A: HM 2342 Connections in the Arts and Humanities
A: HM 2343 Science and the Humanities
K: HM 2344 World Cultures (Pending coordinating board (CB) approval.)

II. Major Requirements, Lower-Division: 6-7 semester credit hours beyond Core Curriculum

One semester credit hour:
A: HM 1100 Freshman Seminar
UNIV 1010 Freshman Seminar

Lower-division preparatory courses (6 semester credit hours):
FILM 2332 Understanding Film

And one course from the following: 3 semester credit hours beyond Core Curriculum:

AHST 1303 Survey of Western Art History: Ancient to Medieval
AHST 1304 Survey of Western Art History: Renaissance to Modern
AHST 2331 Understanding Art
K: TS 1301 Exploration of the Arts
DA: C 1310 Understanding Dance
D: AM 1310 Understanding Theater
HUMA 1301 Exploration of the Humanities
MUSI 1306 Understanding Music

III. Major Requirements, Upper-Division: 42 semester credit hours

Major Core Courses: 9 semester credit hours

AP 3300 Elements of Art and Performance
Art and Performance with Music Concentration (BA)

Bachelor of Arts in Art and Performance with Music Concentration

*Degree Requirements (120 semester credit hours)*

**I. Core Curriculum Requirements: 42 semester credit hours**

*Communication: 6 semester credit hours*

- **COMM 1311** Survey of Oral and Technology-based Communication
- **HET 1302** Rhetoric

*Mathematics: 3 semester credit hours*

Choose one course from the following:

**II. Elective Requirements: 29-30 semester credit hours**

Free Electives: 29-30 semester credit hours

Both upper- and lower-division courses may be used as electives, but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.
MATH 1306 College Algebra for the Non-Scientist
MATH 1314 College Algebra

Select any 3 semester credit hours from Mathematics core courses

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses

Language, Philosophy and Culture: 3 semester credit hours

Choose one course from the following:
- HUMA 1301 Exploration of the Humanities
- LIT 2331 Masterpieces of World Literature
- PHI 1301 Introduction to Philosophy
- PHI 2316 History of Philosophy I
- PHI 2317 History of Philosophy II

Select any 3 semester credit hours from Language, Philosophy and Culture core courses

Creative Arts: 3 semester credit hours

Choose one course from the following:
- ARTS 1301 Exploration of the Arts
- AHST 1303 Survey of Western Art History: Ancient to Medieval
- AHST 1304 Survey of Western Art History: Renaissance to Modern
- AHST 2331 Understanding Art
- DANC 1310 Understanding Dance
- DRAM 1310 Understanding Theater
- FILM 2332 Understanding Film
- MUSI 1306 Understanding Music
- MUSI 2322 Music in Western Civilization (Pending coordinating board approval)

American History: 6 semester credit hours

Choose two courses from the following:
- HIST 1301 U.S. History Survey to Civil War
- HIST 1302 U.S. History Survey from Civil War
- HIST 2301 History of Texas
- HIST 2330 Themes and Ideas in American History
- HIST 2332 Civil War and Reconstruction

Government / Political Science: 6 semester credit hours
**GOVT 2305** American National Government  
**GOVT 2306** State and Local Government

**Social and Behavioral Sciences: 3 semester credit hours**
Select any 3 semester credit hours from Social and Behavioral Sciences core courses

**Component Area Option: 6 semester credit hours**
Choose two courses from the following or other Component Area option courses:
- **ARHM 2340** Creativity
- **ARHM 2341** Global Media
- **ARHM 2342** Connections in the Arts and Humanities
- **ARHM 2343** Science and the Humanities
- **ARHM 2344** World Cultures (Pending coordinating board (CB) approval.)

**II. Major Requirements, Lower-Division: 9-10 semester credit hours beyond Core Curriculum**

One semester credit hour:
- **ARHM 1100** Freshman Seminar
- **UNIV 1010** Freshman Seminar

Lower-division preparatory courses (6 semester credit hours):
- **MUSI 2322** Music in Western Civilization
- **MUSI 2328** Music Theory I

And one course from the following: 3 semester credit hours beyond Core Curriculum:
- **AHST 1303** Survey of Western Art History: Ancient to Medieval
- **AHST 1304** Survey of Western Art History: Renaissance to Modern
- **AHST 2331** Understanding Art
- **ARTS 1301** Exploration of the Arts
- **DANC 1310** Understanding Dance
- **DRAM 1310** Understanding Theater
- **FILM 2332** Understanding Film
- **HUMA 1301** Exploration of the Humanities
- **MUSI 1306** Understanding Music

**III. Major Requirements, Upper-Division: 42 semester credit hours**

Major Core Courses: 9 semester credit hours
**Art and Performance with Visual Arts Concentration (BA)**

**Bachelor of Arts in Art and Performance with Visual Arts Concentration**

*Degree Requirements (120 semester credit hours)*

### I. Core Curriculum Requirements: 42 semester credit hours

**Communication:** 6 semester credit hours

- **CM 1311** Survey of Oral and Technology-based Communication
- **HET 1302** Rhetoric

**Mathematics:** 3 semester credit hours
Choose one course from the following:

- MATH 1306 College Algebra for the Non-Scientist
- MATH 1314 College Algebra

Select any 3 semester credit hours from Mathematics core courses

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses

Language, Philosophy and Culture: 3 semester credit hours

Choose one course from the following:

- HUMA 1301 Exploration of the Humanities
- IT 2331 Masterpieces of World Literature
- PHI 1301 Introduction to Philosophy
- PHI 2316 History of Philosophy I
- PHI 2317 History of Philosophy II

Select any 3 semester credit hours from Language, Philosophy and Culture core courses

Creative Arts: 3 semester credit hours

Choose one course from the following:

- ARTS 1301 Exploration of the Arts
- AHST 1303 Survey of Western Art History: Ancient to Medieval
- AHST 1304 Survey of Western Art History: Renaissance to Modern
- AHST 2331 Understanding Art
- DA 1310 Understanding Dance
- D AM 1310 Understanding Theater
- FILM 2332 Understanding Film
- MUSI 1306 Understanding Music
- MUSI 2322 Music in Western Civilization (Pending coordinating board (CB) approval.)

Comment (DDC49): Added per 2.19.15 email

American History: 6 semester credit hours

Choose two courses from the following:

- HIST 1301 U.S. History Survey to Civil War
- HIST 1302 U.S. History Survey from Civil War
- HIST 2301 History of Texas
- HIST 2330 Themes and Ideas in American History
- HIST 2332 Civil War and Reconstruction
Government / Political Science: 6 semester credit hours

**GOVT 2305** American National Government  
**GOVT 2306** State and Local Government  

Social and Behavioral Sciences: 3 semester credit hours

Select any 3 semester credit hours from Social and Behavioral Sciences core courses  

Component Area Option: 6 semester credit hours

Choose two courses from the following or other Component Area Option courses:  

- **ARHM 2340** Creativity  
- **ARHM 2341** Global Media  
- **ARHM 2342** Connections in the Arts and Humanities  
- **ARHM 2343** Science and the Humanities  
- **ARHM 2344** World Cultures (Pending coordinating board (CB) approval.)  

II. Major Requirements, Lower-Division: 9-10 semester credit hours, beyond Core Curriculum

One semester credit hour:

- **UNIV 1010** Freshman Seminar  

Lower-division preparatory courses (6 semester credit hours):

- **ARTS 2380** 2D Design Foundations  

And one of the following:

- **ARTS 1316** Drawing Foundations  
- **ARTS 2316** Painting Foundations  
- **ARTS 2350** Photography: Design Basics  
- **ARTS 2381** Introduction to Sculpture  

Choose one course from the following: 3 semester credit hours, beyond Core Curriculum:

- **AHST 1303** Survey of Western Art History: Ancient to Medieval  
- **AHST 1304** Survey of Western Art History: Renaissance to Modern  
- **AHST 2331** Understanding Art  
- **ARTS 1301** Exploration of the Arts  
- **DA C 1310** Understanding Dance  
- **D AM 1310** Understanding Theater
II. Major Requirements, Upper-Division: 42 semester credit hours

Major Core Courses: 9 semester credit hours
- AP 3300 Elements of Art and Performance
- ARHM 3342 Advanced Interdisciplinary Studies in the Arts and Humanities
- AP 3340 Writing in the Arts or COMM 3300 Reading Media Critically

Major Distribution and Elective Courses: 24 semester credit hours
- 3 semester credit hours of upper-division Art History courses
- 6 semester credit hours of 3000-level courses from Visual Arts studios
- 3 semester credit hours of 4000-level courses from Visual Arts studios
- 12 semester credit hours of upper-division Art and Performance electives

Major-Related Courses: 9 semester credit hours
Students may select any combination of upper-division courses in Arts and Humanities, Humanities, Historical Studies, Philosophy, Literature, and/or Languages.

IV. Elective Requirements: 26-27 semester credit hours

Free Electives: 26-27 semester credit hours
Any upper- and lower-division courses may be used as electives, but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major requirements at UT Dallas.

3. Music Concentration students who take MUSI 2322 to fulfill core requirements will need to take another course for their Lower-Division Preparatory Courses requirement. Please see advisor for approved courses.
School of Arts and Humanities

Historical Studies (BA)

Students who complete the major in Historical Studies may design distinctive degree programs by selecting among courses in historical and philosophical methods and approaches, traditional historical surveys, and specific historical and philosophical topics. Students are encouraged to focus their work in Historical Studies on a particular time or place, a significant theme, topic, or problem, or an approach to learning such as literature, the arts, ideas, science and technology, or the social sciences. Students may also be certified to teach history and/or social studies and/or English.

Since the following catalog course descriptions are very general, students are urged to consult the detailed course descriptions available on the web site for the School of Arts and Humanities.

Courses in Historical Studies are open to all students in the university.

Faculty List Placeholder

Bachelor of Arts in Historical Studies

Degree Requirements (120 semester credit hours)¹

I. Core Curriculum Requirements: 42 semester credit hours²

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

Choose one course from the following:

MATH 1306 College Algebra for the Non-Scientist
MATH 1314 College Algebra

Select any 3 semester credit hours from Mathematics core courses

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses

Language, Philosophy and Culture: 3 semester credit hours

Choose one course from the following:

HUMA 1301 Exploration of the Humanities
LIT 2331 Masterpieces of World Literature
PHIL 1301 Introduction to Philosophy
PHIL 2316 History of Philosophy I
PHIL 2317 History of Philosophy II

Select any 3 semester credit hours from Language, Philosophy and Culture core courses

Creative Arts: 3 semester credit hours
Choose one course from the following:

- ARTS 1301 Exploration of the Arts
- AHST 1303 Survey of Western Art History: Ancient to Medieval
- AHST 1304 Survey of Western Art History: Renaissance to Modern
- AHST 2331 Understanding Art
- DA C 1310 Understanding Dance
- D AM 1310 Understanding Theater
- FILM 2332 Understanding Film
- MUSI 1306 Understanding Music

American History: 6 semester credit hours
Choose two courses from the following:

- HIST 1301 U.S. History Survey to Civil War
- HIST 1302 U.S. History Survey from Civil War
- HIST 2301 History of Texas
- HIST 2330 Themes and Ideas in American History
- HIST 2332 Civil War and Reconstruction

Government / Political Science: 6 semester credit hours
- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
Choose any 3 semester credit hours from Social and Behavioral Sciences core courses

Component Area Option: 6 semester credit hours
Choose two courses from the following or other Component Area option courses:

- HM 2340 Creativity
- HM 2341 Global Media
II. Major Requirements, Lower-Division: 3-4 semester credit hours beyond Core Curriculum

- **PHIL 1301** Introduction to Philosophy or equivalent
- **ARHM 1100** Freshman Seminar
- **UNIV 1010** Freshman Seminar

III. Major Requirements, Upper-Division: 42 semester credit hours

**Major Core Courses:** 6 semester credit hours

- **HIST 3301** Historical Inquiry
- **ARHM 3342** Advanced Interdisciplinary Studies in the Arts and Humanities

**Major Distribution and Elective Courses:** 24 semester credit hours

Select any 3 semester credit hours of upper-division courses from each of the following groups:

- European Historical Studies
- Asian, African, and Latin American Historical Studies
- Studies in Philosophy and Intellectual History
- Historical Studies with content before 1800

12 semester credit hours of upper-division Historical Studies electives

**Major-Related Courses:** 12 semester credit hours

Students may select any combination of upper-division courses in Arts and Humanities, Art and Performance, Art History, Visual Arts, Communications, Creative Writing, Dance, Drama, Film Studies, Humanities, Literature and Language, and/or Music.

IV. Elective Requirements: 32-33 semester credit hours

Free Electives: 32-33 semester credit hours

Both upper- and lower-division courses may be used as electives, but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

**Historical Studies with Philosophy**
Concentration (BA)
Bachelor of Arts in Historical Studies with Philosophy Concentration

Degree Requirements (120 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours
- COMM 1311 Survey of Oral and Technology-based Communication
- RHET 1302 Rhetoric

Mathematics: 3 semester credit hours
Choose one course from the following:
- MATH 1306 College Algebra for the Non-Scientist
- MATH 1314 College Algebra
- Select any 3 semester credit hours from Mathematics core courses

Life and Physical Sciences: 6 semester credit hours
Select any 6 semester credit hours from Life and Physical Sciences core courses

Language, Philosophy and Culture: 3 semester credit hours
Choose one course from the following:
- HUMA 1301 Exploration of the Humanities
- IT 2331 Masterpieces of World Literature
- PHI 1301 Introduction to Philosophy
- PHI 2316 History of Philosophy I
- PHI 2317 History of Philosophy II

Creative Arts: 3 semester credit hours
Choose one course from the following:
- ARTS 1301 Exploration of the Arts
- AHST 1303 Survey of Western Art History: Ancient to Medieval
- AHST 1304 Survey of Western Art History: Renaissance to Modern
- AHST 2331 Understanding Art
- DA 1310 Understanding Dance
- D 1310 Understanding Theater
American History: 6 semester credit hours
Choose two courses from the following:
- HIST 1301 U.S. History Survey to Civil War
- HIST 1302 U.S. History Survey from Civil War
- HIST 2301 History of Texas
- HIST 2330 Themes and Ideas in American History
- HIST 2332 Civil War and Reconstruction

Government / Political Science: 6 semester credit hours
- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
Select any 3 semester credit hours from Social and Behavioral Sciences core courses

Component Area Option: 6 semester credit hours
Choose two courses from the following or other Component Area option courses:
- ARHM 2340 Creativity
- ARHM 2341 Global Media
- ARHM 2342 Connections in the Arts and Humanities
- ARHM 2343 Science and the Humanities
- ARHM 2344 World Cultures (Pending coordinating board (CB) approval.)

II. Major Requirements, Lower-Division: 6-7 semester credit hours beyond Core Curriculum
- PHI 1301 Introduction to Philosophy or equivalent
- HM 1100 Freshman Seminar
- UNIV 1010 Freshman Seminar
- PHI 2316 History of Philosophy I or PHI 2317 History of Philosophy II

III. Major Requirements, Upper-Division: 45 semester credit hours
Major Core Courses: 6 semester credit hours
HIST 3301 Historical Inquiry
AHM 3342 Advanced Interdisciplinary Studies Topics in the Arts and Humanities

Major Distribution and Elective Courses: 27 semester credit hours

Select any 3 semester credit hours of upper-division courses from each of the following groups:

- European Historical Studies
- Asian, African, and Latin American Historical Studies
- Studies in Philosophy and Intellectual History
- Historical Studies with content before 1800

And 3 semester credit hours of Independent Study

And 12 semester credit hours of upper-division Philosophy electives

Major-Related Courses: 12 semester credit hours

Students may select any combination of upper-division courses in Arts and Humanities, Art and Performance, Art History, Visual Arts, Communications, Creative Writing, Dance, Drama, Film Studies, Humanities, Literature and Language, and/or Music.

IV. Elective Requirements: 26-27 semester credit hours

Free Electives: 26-27 semester credit hours

- Both upper-and lower-division courses may be used as electives, but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major requirements at UT Dallas.

Comment [DDC10]: Original SCH come to 126 instead of 120 so Elective Requirements need to be reduced to a range of 26 to 27 SCH.

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School of Arts and Humanities

Literary Studies (BA)

Students who complete the major in Literary Studies receive a thorough grounding in literary ideas and methods as well as a broad acquaintance with literatures of different periods and cultures, including literature in translation. Courses in this major are divided into the following groups: Literary Genres, English and American Literature, General Literature Courses, and Foreign Languages and Literatures. By selecting courses from a variety of these headings, students are able to combine courses in criticism and interpretation, in writing and translation, and in linguistics and languages. Students may also be certified to teach English and/or history and/or social studies.

Since the following catalog course descriptions are very general, students are urged to consult the detailed course descriptions available on the web site for the School of Arts and Humanities.

Unless otherwise noted, courses in Literary Studies are open to all students in the university.

Faculty List Placeholder

Bachelor of Arts in Literary Studies

Degree Requirements (120 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

Choose one course from the following:

MATH 1306 College Algebra for the Non-Scientist
MATH 1314 College Algebra

Select any 3 semester credit hours from Mathematics core courses

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses

Language, Philosophy and Culture: 3 semester credit hours

Choose one course from the following:
HUMA 1301 Exploration of the Humanities

LIT 2331 Masterpieces of World Literature

PHI 1301 Introduction to Philosophy

PHI 2316 History of Philosophy I

PHI 2317 History of Philosophy II

Select any 3 semester credit hours from Language, Philosophy and Culture core courses

Creative Arts: 3 semester credit hours

Choose one course from the following:

- ARTS 1301 Exploration of the Arts
- AHST 1303 Survey of Western Art History: Ancient to Medieval
- AHST 1304 Survey of Western Art History: Renaissance to Modern
- AHST 2331 Understanding Art
- DA M 1310 Understanding Dance
- D AM 1310 Understanding Theater
- FIL M 2332 Understanding Film
- MUSI 1306 Understanding Music
- MUSI 2322 Music in Western Civilization (Pending coordinating board (CB) approval.)

American History: 6 semester credit hours

Choose two courses from the following:

- HIST 1301 U.S. History Survey to Civil War
- HIST 1302 U.S. History Survey from Civil War
- HIST 2301 History of Texas
- HIST 2330 Themes and Ideas in American History
- HIST 2332 Civil War and Reconstruction

Government / Political Science: 6 semester credit hours

- G VT 2305 American National Government
- G VT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

Select any 3 semester credit hours from Social and Behavioral Sciences core courses

Component Area Option: 6 semester credit hours

Choose two courses from the following or other Component Area Option courses:

- ARHM 2340 Creativity

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Comment [DDC1]: Added per 2.19.15 email

Comment [DDC1]: Added per 2.19.15 email
II. Major Requirements, Lower-Division: 3-4 semester credit hours beyond Core Curriculum

- ARHM 2341 Global Media
- ARHM 2342 Connections in the Arts and Humanities
- ARHM 2343 Science and the Humanities
- ARHM 2344 World Cultures (Pending coordinating board (CB) approval.)

III. Major Requirements, Upper-Division: 42 semester credit hours

Major Core Courses: 9 semester credit hours

- ARHM 3342 Advanced Interdisciplinary Studies in the Arts and Humanities
- LIT 3300 Western Literary Tradition
- LIT 3339 Writing in Literary Studies

Major Distribution and Elective Courses: 24 semester credit hours

Select any 3 semester credit hours of upper-division courses from each of the following groups:
- Literary genres
- Literature before 1850
- Translated literature

15 semester credit hours of upper-division Literary Studies electives

Major-Related Courses: 9 semester credit hours

Students may select any combination of upper-division courses from Arts and Humanities, Art and Performance, Art History, Visual Arts, Communications, Creative Writing, Dance, Drama, Film Studies, Historical Studies, Humanities, Music and/or Philosophy.

IV. Elective Requirements: 32-33 semester credit hours

Free Electives: 32-33 semester credit hours

Both upper-division and lower-division courses may be used as electives, but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman
Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major requirements at UT Dallas.

Deleted: Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.
School of Arts and Humanities

Minors

Students must take a minimum of 18 semester credit hours for the minor, 12 of which must be upper-division semester credit hours. Students who take a minor will be expected to meet the normal prerequisites in courses making up the minor, and should maintain a minimum GPA of 2.000 on a 4.00 scale (C average). Semester credit hours may not be used to satisfy both the major and minor requirements; however, free elective semester credit hours or major preparatory classes may be used to satisfy the minor. Core courses offered by the school may count as lower-division semester credit hours toward the minor. Topics courses must be approved by the school. The School of Arts and Humanities will substitute courses as necessary. The undergraduate minors in the School of Arts and Humanities follow:

- Art History
- Asian Studies
- Communication
- Creative Writing
- Dance
- Drama/Dance
- History
- Literature
- Medical and Scientific Humanities
- Music
- Performing Arts
- Philosophy
- Spanish and Hispanic Area Studies
- Visual Arts

Minor in Art History: 18 semester credit hours

Choose any 6 courses from the following:

- ARTS 1301 Exploration of the Arts
- AHST 1303 Survey of Western Art History: Ancient to Medieval
- AHST 1304 Survey of Western Art History: Renaissance to Modern
- AHST 2331 Understanding Art
AHST 3313 Medieval Art
AHST 3315 The Art of the Renaissance
AHST 3316 The Art of the Baroque
AHST 3317 Pioneers of Modern Art
AHST 3318 Contemporary Art
AHST 3319 Twentieth Century European Art: Avant-Garde and Aftermath
AHST 3320 Art in Historical Context
AHST 3321 Chinese Art History
AHST 3322 Modern Architecture
AHST 3324 History of Photography
AHST 4V71 Independent Study in Art History (1-3 semester credit hours)
AP 3300 Elements of Art and Performance

Minor in Asian Studies: 18 semester credit hours

Language Courses (must enroll in a minimum of two sequential courses in either Chinese or Japanese)

CHIN 1311 Beginning Chinese I
CHIN 1312 Beginning Chinese II
CHIN 2311 Intermediate Chinese I
CHIN 2312 Intermediate Chinese II
CHIN 3365 Advanced Chinese I
AP 1311 Beginning Japanese I
AP 1312 Beginning Japanese II
AP 2311 Intermediate Japanese I
AP 2312 Intermediate Japanese II
AP 3311 Advanced Japanese I
AP 3312 Advanced Japanese II
AG 3342 Advanced Language Instruction
AG 3348 Topics in Language
AG 4348 Advanced Topics in Language
Related Courses

- AHST 3321 Chinese Art History
- HIST 3312 Early China
- HIST 3313 Medieval China
- HIST 3314 Traditional China
- HIST 3315 Modern China
- HIST 3316 Women in Traditional China
- HIST 4358 Topics in Asian History
- HIST 4376 Topics in History
- LIT 3382 Topics in Non-Western Literature

Minor in Communication: 18 semester credit hours

Foundations: 9 semester credit hours

Choose three courses from the following:

- COMM 4360 Communication Ethics
- COMM 3351 History and Theory of Communication
- COMM 4314 Persuasion
- COMM 4370 Communication and Leadership

Communication Performance: 3 semester credit hours

Choose one course from the following:

- COMM 2313 Public Speaking
- COMM 2314 Oral Interpretation
- COMM 3301 Business and Professional Communication
- COMM 3311 Interpersonal Communication
- COMM 3320 Readers' Theater
- COMM 4340 Small Group Communication
- COMM 4313 Advanced Public Speaking

Communication and Media: 3 semester credit hours

Choose one course from the following:

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COMM 3300 Reading Media Critically
COMM 3352 Media and Culture

Communication and Culture: 3 semester credit hours
Choose one course from the following:
- COMM 4350 Intercultural Communication
- COMM 4351 U.S. Culture and Communication
- LIT 3335 Media and Pop Culture

Minor in Creative Writing: 18 semester credit hours

Required Course: 3 semester credit hours
- CRWT 2301 Introductory Creative Writing

Genres minimum of two genres required: 6 semester credit hours
- CRWT 2V71 Independent Study in Creative Writing
- CRWT 3307 Creating Short Stories
- CRWT 3308 Creating Nonfictions
- CRWT 3351 Creating Poetry
- CRWT 3360 Art Criticism

Advanced work: 9 semester credit hours
- CRWT 4307 Creating Short Stories: Advanced
- CRWT 4353 Creating Poetry: Advanced
- CRWT 4354 Creating Scripts
- CRWT 4V71 Independent Study in Creative Writing

Minor in Dance: 18 semester credit hours

Theatre/Dance Historical Study: 3 semester credit hours
Choose one lower-division course from the following:
- DA: C 1310 Understanding Dance
- DA: C 2V71 Independent Study in Dance (1-3 semester credit hours)
Performance and Technical Study: 15 semester credit hours

Choose one required course from the following (3 semester credit hours):

- DA: C 3345 Dance Performance
- DA: C 4317 Dance Performance 2
- DA: C 3347 Dance Composition

Choose four courses from the following (12 semester credit hours, no more than 3 semester credit hours can be at the lower level):

- DA: C 2311 Topics in Dance
- DA: C 2321 Stretch, Conditioning, Alignment
- DA: C 2331 Dance Technique 1
- DA: C 2332 Modern Dance 1
- DA: C 2333 a: Dance 1
- DA: C 2334 :allet 1
- DA: C 2336 Tap Dance 1
- DA: C 2332 Dance Technique 2
- DA: C 3340 Dance in Historical Context
- DA: C 3342 Advanced Topics in Dance
- DA: C 3345 Dance Performance
- DA: C 3347 Dance Composition
- DA: CE 4313 Dance Technique 3
- DA: C 4317 Dance Performance 2
- DA: C 4318 Dance Technique 4
- DA: C 4V71 Independent Study in Dance

Minor in Drama/Dance: 18 semester credit hours

Theatre/Dance Historical Study: 3 semester credit hours

Choose one lower-division course from the following:

- DA: C 1310 Understanding Dance
- DA: C 2V71 Independent Study in Dance (1-3 semester credit hours)
DRAM 1310 Understanding Theater
DRAM 2V71 Independent Study in Drama (1-3 semester credit hours)

Performance and Technical Study: 9 semester credit hours

Choose one required course from the following (3 semester credit hours):

DA: C 3345 Dance Performance
DA: C 4317 Dance Performance 2
DA: C 3347 Dance Composition
DA: AM 3310 Theater/Performance Ensemble
DA: AM 3325 Directing

Choose two courses from the following (6 semester credit hours, no more than 3 semester credit hours can be at the lower level):

DA: C 2311 Topics in Dance
DA: C 2321 Stretch, Conditioning, Alignment
DA: C 2331 Dance Technique 1
DA: C 2332 Modern Dance 1
DA: C 2333 ballet 1
DA: C 2334 ballet 1
DA: C 2336 Tap Dance 1
DA: C 3332 Dance Technique 2
DA: C 3333 Modern Dance 2
DA: C 3334 ballet 2
DA: C 3335 ballet 2
DA: AM 1351 Acting 1
DA: AM 1352 Acting 2
DA: AM 2311 Topics in Theater
DA: AM 2364 Musical Theater Workshop
DA: AM 2371 Technical Theater 1
DA: AM 2373 languages of the body
DA: AM 2372 Improvisation
DA: AM 3324 Technical Theater 2
Theatre/Dance Historical and Performance and Design Studies: 6 semester credit hours, upper-division coursework

Choose one course from the following (3 semester credit hours):

- DANC 3340 Dance in Historical Context
- DRAM 3351 Light Design
- DRAM 3323 Performance in Historical Context
- DANC 3342 Advanced Topics in Dance
- DRAM 3342 Advanced Topics in Theater
- DRAM 3372 Advanced Improvisation

Choose one course from the following (3 semester credit hours; students may select a course from the list above or below)

- DANC 4313 Dance Technique 3
- DANC 4318 Dance Technique 4
- DANC 4V71 Independent Study in Dance (1-3 semester credit hours)
- DRAM 3356 Acting 3
- DRAM 4301 Acting for Film and Video

Minor in History: 18 semester credit hours

Foundation Courses
- HIST 1301 U.S. History Survey to Civil War
- HIST 1302 U.S. History Survey from Civil War
- HIST 2301 History of Texas
- HIST 2V71 Independent Study in Historical Studies
- HIST 3301 Historical Inquiry
- HIST 3302 Gender in Western Thought
- HIST 3386 World History to 1500
- HIST 3387 World History from 1500
- HIST 4376 Topics in History
- HIST 4V71 Independent Study in Historical Studies
- HIST 4V99 Senior Honors in Historical Studies
ISAH 4V88 Special Interdisciplinary Topics in the Arts and Humanities

Students may select the appropriate courses in consultation with their advisors regarding the various aspects of historical studies. The total of semester credit hours for each concentration may vary.

**European Historical Studies**

- HIST 3317 The Crusades
- HIST 3318 Medieval Europe
- HIST 3319 Early Modern Europe
- HIST 3320 Modern Europe
- HIST 3324 Women in European Society
- HIST 3331 European Social History
- HIST 3334 Nineteenth Century European Culture and Society
- HIST 3336 Twentieth Century European Culture and Society
- HIST 3337 Technology and Western Civilization
- HIST 3344 History of Science in Europe
- HIST 4330 The Holocaust
- HIST 4331 Holocaust and Representation
- HIST 4332 After the Holocaust
- HIST 4339 Berlin: History of a City
- HIST 4344 Topics in European History
- HIST 4356 European Enlightenment

**Asian, African and Latin American Studies**

- HIST 3312 Early China
- HIST 3313 Medieval China
- HIST 3314 Traditional China
- HIST 3315 Modern China
- HIST 3316 Women in Traditional China
- HIST 3351 Ottoman Empire I
- HIST 3352 Ottoman Empire II
- HIST 3358 Latin American History
- HIST 3391 Modern Mexico
HIST 3392 U.S.-Mexico Borderlands
HIST 3398 Colonial Latin American History
HIST 3399 Modern Latin American History
HIST 4357 Topics in African and African-American History
HIST 4358 Topics in Asian History
HIST 4359 Topics in Latin American History

American Historical Studies

HIST 2330 Themes and Ideas in American History
HIST 2331 Issues in American History
HIST 3360 The American Revolution
HIST 3364 History of American Religion
HIST 3365 The American West
HIST 3366 Themes in the Social History of the United States
HIST 3367 Continental Expansions in American History
HIST 3369 United States Foreign Relations
HIST 3370 The American Experience in Vietnam
HIST 3374 American Technological Development
HIST 3379 United States Relations with Latin America
HIST 3380 The Nuclear Age in America
HIST 3382 The United States Since 1945
HIST 3384 U.S. Women from Settlement to Present
HIST 3389 History of Science in the U.S.
HIST 3390 Twentieth Century African American History
HIST 3394 Native American History from the Pre-Columbian Period through 1795
HIST 3395 Native American History in the Nineteenth Century
HIST 3396 Native Americans in the Twentieth Century
HIST 4336 The U.S. Jewish Experience
HIST 4345 Origins of the Jim Crow South
HIST 4346 American Culture 1877-1919
HIST 4349 Jewish History
HIST 4360 Topics in American Women's History
HIST 4368 North American Environmental History
HIST 4377 Topics in Early American History
HIST 4378 Topics in American History

Studies in Philosophy and Intellectual History
HIST 3328 History and Philosophy of Science and Medicine
HIST 3332 History of the Electronic Age
HIST 3376 American Intellectual History, Colonial to the Civil War
HIST 3377 American Intellectual History, Civil War to the Present
HIST 4380 Topics in Intellectual History

PHIL 2316 History of Philosophy I
PHIL 2317 History of Philosophy II
PHIL 3373 Philosophy of Mind
PHIL 3375 Ethics in Contemporary America
PHIL 4305 Philosophical Concepts
PHIL 4308 Theories of Knowledge
PHIL 4310 Philosophy of Technology
PHIL 4320 Medical Ethics
PHIL 4321 Philosophy of Medicine
PHIL 4380 Topics in Philosophy

Minor in Literature: 18 semester credit hours

Foundation Courses: 9 semester credit hours
- LIT 2331 Masterpieces of World Literature
- LIT 2341 Literary Analysis
- LIT 3300 Western Literary Tradition

Students may select the appropriate courses in consultation with their advisors regarding the various aspects of literature. The total of semester credit hours for each concentration may vary.

Literary Genres
- LIT 3309 Studies in the Short Story
LIT 3310 Studies in Epic and Romance
LIT 3316 The Literature of Science Fiction
LIT 3317 The Literature of Fantasy
LIT 3312 Studies in Prose Narrative
LIT 3313 Studies in Dramatic Literature
LIT 3314 Studies in Poetry
LIT 3315 Children's Literature

English and American Literature

LIT 3318 British Romanticism
LIT 3319 Periods in English Literature
LIT 3321 Modern British Literature
LIT 3322 Early American Literature
LIT 3323 The American Renaissance 1820-1865
LIT 3324 American Realism and Naturalism
LIT 3325 American Modernism
LIT 3326 The Literature of the American South
LIT 3327 Mid-Twentieth Century American Literature
LIT 3328 Ethnic American Literature
LIT 3340 The Victorian Novel
LIT 3383 Topics in British Literature

General Literature

LIT 3304 Advanced Composition
LIT 3328 Ethics in Literature
LIT 3330 Linguistics
LIT 3331 Contemporary American Literature
LIT 3332 English Syntax and Mechanical Structure
LIT 3334 Literature of Science
LIT 3335 Media and Pop Culture
LIT 3339 Writing in Literary Studies
LIT 3343 European Romanticism
Minor in Medical and Scientific Humanities: 18 semester credit hours

Choose any six courses from the following:

- HUMA 3300 Reading and Writing Texts
- or ARHM 3342 Advanced Interdisciplinary Studies in the Arts and the Humanities
- COMM 3301 Business and Professional Communication
- COMM 3311 Interpersonal Communication
- COMM 3342 Advanced Topics in Communication
- COMM 3351 History and Theory of Communication
- COMM 4314 Persuasion
- COMM 4350 Intercultural Communication
- COMM 4351 U.S. Culture and Communication
- COMM 4360 Communication Ethics
- COMM 4370 Communication and Leadership
- HIST 3302 Gender in Western Thought
- HIST 3328 History and Philosophy of Science and Medicine
- HIST 3337 Technology and Western Civilization
- HIST 3344 History of Science in Europe
- HIST 3374 American Technological Development
HIST 3380 The Nuclear Age in America
HIST 3389 History of Science in the U.S.
HIST 4380 Topics in Intellectual History
HUMA 3342 Topics in the Humanities
HUMA 3350 Introduction to Islam
HUMA 3351 Introduction to Islamic Culture
LIT 3304 Advanced Composition
LIT 3316 The Literature of Science Fiction
LIT 3317 The Literature of Fantasy
LIT 3312 Studies in Prose Narrative
LIT 3319 Periods in English Literature
LIT 3328 Ethics in Literature
LIT 3334 Literature of Science
LIT 3344 European Idealism and Naturalism
LIT 4348 Topics in Literary Studies
LIT 4V71 Independent Study in Literary Studies (1-3 semester credit hours)
PHI . 2316 History of Philosophy I
PHI . 2317 History of Philosophy II
PHI . 3328 History and Philosophy of Science and Medicine
PHI . 3373 Philosophy of Mind
PHI . 3375 Ethics in Contemporary America
PHI . 4310 Philosophy of Technology
PHI . 4320 Medical Ethics
PHI . 4321 Philosophy of Medicine
PHI . 4380 Topics in Philosophy
SPAN 2341 Medical Spanish

And any appropriate course(s) in Interdisciplinary Studies, EPPS, and any 3000/4000 level organized course in PSY (limited to 6 semester credit hours)

Minor in Music: 18 semester credit hours

Required Lower-Division courses: 6 semester credit hours
Choose two courses from the following:

MUSI 1306 Understanding Music
or MUSI 2322 Music in Western Civilization
MUSI 2328 Music Theory I

Required Upper-Division courses: 12 semester credit hours total

Required Music Performance and/or Ensemble courses: 6 semester credit hours

Choose two courses from the following:

MUSI 3312 Advanced Orchestra/Chamber Music Ensemble I
MUSI 3316 Guitar Ensemble II
MUSI 3318 String Orchestra
MUSI 3320 Wind Ensemble II
MUSI 3390 Guitar II
MUSI 3381 Instrumental Ensemble II
MUSI 3382 Vocal Instruction II
MUSI 3384 Best of Broadway
MUSI 3385 Chamber Singers I
MUSI 3386 Jazz Ensemble II
MUSI 3387 Jazz Improvisation and Keyboard Harmony
MUSI 3388 Piano II
MUSI 4312 Advanced Orchestra/Chamber Music Ensemble II
MUSI 4316 Guitar Ensemble III
MUSI 4318 Advanced String Orchestra
MUSI 4320 Wind Ensemble III
MUSI 4345 Music Performance III
MUSI 4346 Instrumental Ensemble III
MUSI 4347 Vocal Ensemble III
MUSI 4385 Chamber Singers II
MUSI 4386 Ensemble III
MUSI 4V61 Individual Instruction in Vocal Performance
MUSI 4V71 Independent Study in Music

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Required Upper-Division Music History and Music Theory Courses: 6 semester credit hours

Choose two courses from the following:

- **MUSI 3322** Music in Historical Context
- **MUSI 3323** The Guitar: Medieval to Modern
- **MUSI 3324** Music History: Roots to Swing
- **MUSI 3325** Music History: Modern since Bebop
- **MUSI 3328** Music Theory II
- **MUSI 3342** Advanced Topics in Music
- **MUSI 3389** Digital Music II
- **MUSI 4348** Creating Music

Minor in Performing Arts: 18 semester credit hours

Choose any six courses from the following:

- **ARTS 1301** Exploration of the Arts
- **DANC 1310** Understanding Dance
- **DANC 2311** Topics in Dance
- **DANC 2321** Stretch, Conditioning, Alignment
- **DANC 2331** Dance Technique 1
- **DANC 2332** Modern Dance 1
- **DANC 2333** Dance 1
- **DANC 2334**allet 1
- **DANC 2336** Tap Dance 1
- **DANC 2V71** Independent Study in Dance
- **DANC 3332** Dance Technique 2
- **DANC 3333** Modern Dance 2
- **DANC 3334** Dance 2
- **DANC 3335**allet 2
- **DANC 3340** Dance in Historical Context
- **DANC 3342** Advanced Topics in Dance
- **DANC 3345** Dance Performance
DANC 3347 Dance Composition
DANC 4313 Dance Technique 3
DANC 4314 Modern Dance 3
DANC 4315 Ballet 3
DANC 4316 Jazz Dance 3
DANC 4317 Dance Performance 2
DANC 4318 Dance Technique 4
DANC 4V71 Independent Study in Dance
DAM 1310 Understanding Theater
DAM 1351 Acting 1
DAM 1352 Acting 2
DAM 2311 Topics in Theater
DAM 2364 Musical Theater Workshop
DAM 2371 Technical Theater 1
DAM 2372 Improvisation
DAM 2373 Languages of the Body
DAM 2V71 Independent Study in Drama
DAM 3310 Theater/Performance Ensemble
DAM 3323 Performance in Historical Context
DAM 3324 Technical Theater 2
DAM 3325 Directing
DAM 3342 Advanced Topics in Theater
DAM 3351 Light Design
DAM 3356 Acting 3
DAM 3372 Advanced Improvisation
DAM 4V71 Independent Study in Drama (1-3 semester credit hours)

MUSI 1306 Understanding Music
MUSI 1313 Fundamentals of Music
MUSI 2113 Pep and
MUSI 2127 Community Chorale
MUSI 2315 Guitar I

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MUSI 2316 Guitar Ensemble I
MUSI 2317 Piano I
MUSI 2319 Digital Music I
MUSI 2320 Wind Ensemble I
MUSI 2311 Topics in Music
MUSI 2322 Music in Western Civilization
MUSI 2324 Instrumental Ensemble I
MUSI 2325 Vocal Instruction I
MUSI 2326: Ensemble I
MUSI 2328 Music Theory I
MUSI 2V71 Independent Study in Music
MUSI 3312 Advanced Orchestra/Chamber Music Ensemble I
MUSI 3316 Guitar Ensemble II
MUSI 3318 String Orchestra
MUSI 3320 Wind Ensemble II
MUSI 3322 Music in Historical Context
MUSI 3323 The Guitar: Medieval to Modern
MUSI 3324: History: Roots to Swing
MUSI 3325: History: Modern since 1800
MUSI 3328 Music Theory II
MUSI 3342 Advanced Topics in Music
MUSI 3380 Guitar II
MUSI 3381 Intermediate Ensemble II
MUSI 3384 Broadway
MUSI 3385 Chamber Singers I
MUSI 3386: Ensemble II
MUSI 3387: Improvisation and Keyboard Harmony
MUSI 3388 Piano II
MUSI 3389 Digital Music II
MUSI 4312 Advanced Orchestra/Chamber Music Ensemble II
MUSI 4316 Guitar Ensemble III
MUSI 4318 Advanced String Ensemble
MUSI 4320 Wind Ensemble III
MUSI 4345 Music Performance III
MUSI 4346 Instrumental Ensemble III
MUSI 4347 Vocal Ensemble III
MUSI 4385 Chamber Singers II
MUSI 4346 Instrumental Ensemble III
MUSI 4348 Creating Music
MUSI 4V61 Individual Instruction in Vocal Performance (1-3 semester credit hours)
MUSI 4V71 Independent Study in Music (1-3 semester credit hours)

Minor in Philosophy: 18 semester credit hours

Choose any six courses from the following:

PHIL 1301 Introduction to Philosophy
PHIL 2316 History of Philosophy I
PHIL 2317 History of Philosophy II
PHIL 2V71 Independent Study in Philosophy
PHIL 3328 History and Philosophy of Science and Medicine
PHIL 3373 Philosophy of Mind
PHIL 3375 Ethics in Contemporary America
PHIL 4305 Philosophical Concepts
PHIL 4308 Theories of Knowledge
PHIL 4310 Philosophy of Technology
PHIL 4380 Topics in Philosophy
HIST 3328 History and Philosophy of Science and Medicine
HIST 3376 American Intellectual History, Colonial to the Civil War
HIST 3377 American Intellectual History, Civil War to the Present
HIST 3302 Gender in Western Thought
PHIL 4320 Medical Ethics
PHIL 4321 Philosophy of Medicine
Minor in Spanish and Hispanic Area Studies: 18 semester credit hours

Required Language Courses: 6 semester credit hours

Choose **two courses from** the following:

- **SPAN 1311** Beginning Spanish I
- **SPAN 1312** Beginning Spanish II
- **SPAN 2311** Intermediate Spanish I
- **SPAN 2312** Intermediate Spanish II

Upper-Division Courses: 12 semester credit hours

Choose any **four courses from** the following:

- **SPAN 3363** Spanish Composition and Style
- **SPAN 3365** Advanced Spanish I
- **SPAN 3366** Advanced Spanish II
- **SPAN 4301** Advanced Spanish Conversation
- **SPAN 4302** Spanish Conversation and Community
- **SPAN 4364** Advanced Spanish Culture
- **A_G 3342** Advanced Language Instruction
- **A_G 3348** Topics in Language
- **A_G 4348** Advanced Topics in Language
- **LIT 3329** Ethnic American Literature
- **LIT 3385** Topics in Latin American Literature
- **HIST 3358** Latin American History
- **HIST 3379** United States Relations with Latin America
- **HIST 3391** Modern Mexico
- **HIST 3392** U.S.-Mexico Borderlands
- **HIST 3398** Colonial Latin American History
- **HIST 3399** Modern Latin American History
Topics courses (and LIT 3329 Ethnic American Literature) must be approved by the School of Arts and Humanities before enrolling.

Minor in Visual Arts: 18 semester credit hours

Arts Foundations: 3 semester credit hours

Choose one course from the following:
- ARTS 1316 Drawing Foundations
- ARTS 2316 Painting Foundations
- ARTS 2350 Photography Design Basics
- ARTS 2380 2D Design Foundations
- ARTS 2381 Introduction to Sculpture
- ARTS 2V71 Independent Study in Visual Arts (1-3 semester credit hours)

Art History Foundations: 3 semester credit hours

Choose one course from the following:
- AHST 1303 Survey of Western Art History: Ancient to Medieval
- AHST 1304 Survey of Western Art History: Renaissance to Modern
- AHST 2331 Understanding Art
- AHST 3313 Medieval Art
- AHST 3315 The Art of the Renaissance
- AHST 3316 The Art of the Baroque
- AHST 3317 Pioneers of Modern Art
- AHST 3318 Contemporary Art
- AHST 3319 Twentieth Century European Art: Avant-Garde and Aftermath
- AHST 3320 Art in Historical Context
- AHST 3324 History of Photography
- AHST 4342 Topics in Art History
- FILM 2332 Understanding Film
- FILM 3321 Film in Historical Context
- FILM 3325 Film Authorship
FI: M 3342 Topics in Film

Studio Courses: 12 semester credit hours

Choose any four courses from the following:

- ARTS 3311 Theory and Practice of Visual Arts
- ARTS 3340 Topics in Studio Art
- ARTS 3341 Chinese Calligraphy
- ARTS 3363 Design, Text, and Image
- ARTS 4366 Drawing Concepts
- ARTS 3367 Figure Drawing
- ARTS 3368 Mixed Media
- ARTS 3369 Intermediate Painting
- ARTS 3371 Photography: Black/White
- ARTS 3372 Photography: Color
- ARTS 3373 Printmaking
- ARTS 3375 Sculpture
- ARTS 3376 Time-Based Art
- ARTS 3377 Photography: Altered Image
- ARTS 3379 Photography: New Media
- ARTS 3381 Video Painting
- ARTS 3382 Color as Subject
- ARTS 4308 Image/Text
- ARTS 4366 Advanced Drawing
- ARTS 4368 Advanced Visual Arts
- ARTS 4369 Advanced Painting
- ARTS 4372 Advanced Photography
- ARTS 4V71 Independent Study in Visual Arts (1-3 semester credit hours)
School of Arts, Technology, and Emerging Communication (ATEC)
2015-16 Undergraduate Catalog

Degree Programs
School of Arts, Technology, and Emerging Communication

The School of Arts, Technology, and Emerging Communication and Humanities offers baccalaureate degrees in Art and Performance, Historical Studies, Literary Studies, Arts and Technology, and Emerging Media and Communication.

Students who complete the major in Art and Performance pursue an interdisciplinary study of the arts by selecting among courses in historical context, studio practice, performance ensemble, creative writing, communication, and ideas and interpretation of the arts. Students may also choose to enroll in courses associated with concentrations in art history, communication, drama/dance, film, music, or visual arts. Encompassing coursework in history and philosophy, Historical Studies majors design a distinctive program of study around their interests, such as themes, topics, time periods, and historical or philosophical approaches to subject matter. Students may also choose to enroll in courses associated with the philosophy concentration. The Literary Studies program, which brings together writers and scholars dedicated to the study of literature and culture in an international and interdisciplinary context, offers students the opportunity to explore a wide range of literary traditions, critical approaches, and theoretical debates.

The Arts and Technology (ATEC) degree emphasizes the mutually productive interaction of technology with the arts, with specific emphasis on the interplay of visual art, music, and narrative with the new modes of expression and communication that have emerged from the convergence of computing and media technologies. The program stresses not only the creation but also the potential applications and cultural implications of interactive media.

The Emerging Media and Communication (EMAC) degree addresses the importance of understanding the social and cultural implications of an "always on" world. Through a range of disciplines including media studies, communication, psychology, art, history, writing, philosophy, and sociology, students analyze the significance of digital media on our major social structures and cultural institutions, working to understand how this affects what it means to be a citizen in the digital world. Through working on digital media projects, EMAC students may also choose to enroll in courses associated with the philosophy of light, music, film, visual arts, film, and visual arts. The first three majors integrate traditional courses of study in the studio arts, vocal and instrumental music, dance and theater; history and philosophy; and American, English, Spanish, and other literatures. The fourth and fifth integrate elements of the other three majors.

Students in the School of Arts, Technology, and Emerging Communication and Humanities are encouraged to explore the boundaries and the interrelationships of the major fields of study within the school. Consistent with this focus on the integration of the arts, sciences, humanities, communication, and technology and a commitment to interdisciplinary education, the School has no conventional departments. Rather, its curriculum is designed to allow study that crosses and transforms traditional disciplinary lines.

Each student in the School consults regularly with an advisor, who assists the student design an integrated program of coursework. The ATEC and EMAC degree programs are a total of 120 semester credit hours with 51 upper-division semester credit hours required to complete them. All students who major in Art and Performance, Historical Studies, or Literary Studies complete a 3-semester credit-hour core course, A.HM 3342. Advanced Topics in the Arts and Humanities, that introduces the methods, strategies, and theories of inquiry and interpretation that are elaborated in subsequent arts and humanities courses. In addition, all students are required to enroll in an upper-division writing course associated with their major. Students also complete either 3,
6, or 12 semester credit hours of major core coursework (depending on the major selected). Students will additionally complete a series of major requirements and electives, and the remaining semester credit hours in related coursework from within the School of Arts and Humanities.

1. The Arts and Technology Major requires only 39 semester credit hours in required upper-division coursework and prescribed electives.

**Teacher Certification**

Students interested in teaching in secondary schools can achieve Texas Teacher Certification in English, and/or History and/or Composite Social Studies as part of their majors in either Literary Studies or Historical Studies. Immediately after being admitted to the university, interested students should meet with an advisor in the Teacher Development Center to receive a certification plan and with an Arts and Humanities advisor in Literary Studies or Historical Studies to receive a degree plan. Further details may be found in the Teacher Certification section of the catalog.

**Fast Track Baccalaureate/Master's Degrees**

The School of Arts, Technology, and Emerging Communication does not participate in the Fast Track program.

**Minors**

To minor in the Arts and Humanities, students must take a minimum of 18 semester credit hours for the minor, 12 of which must be upper-division semester credit hours. Students who take a minor will be expected to meet the normal prerequisites in courses making up the minor, and should maintain a minimum GPA of 2.000 on a 4.000 scale (C average). Core courses offered by the school may count as lower-division semester credit hours toward the minor. Students may choose to minor in any of the following fields of study:

- Art History
- Asian Studies
- Communication
- Creative Writing
- Dance
- Drama/Dance
- History
- Literature
- Medical and Scientific Humanities
- Music
- Performing Arts
Students may contact their academic advisor for a list of the courses that satisfy each minor... 
http://catalog.utdallas.edu/2015/undergraduate/programs/ah/minors

Related Minor Areas:

Minor in Gender Studies (18 semester credit hours).
The Gender Studies minor is 18 semester credit hours. The courses consist of GST 2300, two other Gender Studies core courses, and nine semester credit hours of approved Gender Studies electives.

Faculty

Professors: Paul Fishwick, , Thomas E. Linehan, , Roger Malina, Mihai Radin,

Clinical Professor:

Associate Professors: Frank Dufour, Monica Evans, , Todd Fechter, Scot Gresham-, ancaster, Tosanna Guadagno, , Midori Hitagawa, , Maximilian Schich, , Andrew Scott, Dean Terry,

Clinical Associate Professors: Harold (Chip) Wood

Research Associate Professor: Marjorie Zielke

Assistant Professors: Olivia Banner, Matt Brown, Eric Farrar, , im night, Sean McComber, Eunkyoung () young, Lee Swearingen, Angela M. Lee, Scott Swearingen,

Clinical Assistant Professors: Tim Christopher, Janet Johnson, Kyle Kondas, Cassini Nazir, , Michael Stephens,

Visiting Assistant Professors: Mona Kasra

Distinguished Research Scholar: Bonnie Pitman

Senior Lecturers II:

Senior Lecturers: Elizabeth (Lisa) Bell, Steve Billingslea, Chris Camacho, Filip Celandar, Kristen Drozos, Melissa Hernandez-Katz, Greg L. Metz, Barbara Vance.
School of Arts, Technology, and Emerging Communication

Arts and Technology (BA)

Students who complete the major in Arts and Technology receive a thorough grounding in the mutually productive interaction of technology with the arts, with specific emphasis on the interplay of visual art, music, and narrative with the new modes of expression and communication that have emerged from the convergence of computing and media technologies. The program stresses not only the creation but also the potential applications and cultural implications of interactive media. A student majoring in Arts and Technology will be required to channel selected coursework according to individual needs and specialties. Particular attention should be given to the Prescribed Electives for the major, and close consultation with academic advisors is recommended. By selecting courses from a variety of the remaining elective headings, students are able to combine courses in technology and fine arts with coursework in literary criticism and interpretation, creative writing and translation, and linguistics and languages.

Unless otherwise noted, courses in Arts and Technology are open to all students in the university. However, students majoring in Arts and Technology may be given preference in certain course enrollments.

Faculty List Placeholder

Bachelor of Arts in Arts and Technology

Degree Requirements (120 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

   Communication: 6 semester credit hours

   - COMM 1311 Survey of Oral and Technology-based Communication
   - RHET 1302 Rhetoric

   Mathematics: 3 semester credit hours

   Choose one course from the following:

   - MATH 1306 College Algebra for the Non-Scientist

Comment [MJ1]: New school approved by Board of Regents, 2-12-15.

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MATH 1314 College Algebra

Select any 3 semester credit hours from Mathematics core courses

Life and Physical Sciences: 6 semester credit hours
Select any 6 semester credit hours from Life and Physical Sciences core courses

Language, Philosophy and Culture: 3 semester credit hours
Choose one course from the following:

- HUMA 1301 Exploration of the Humanities
- LIT 2331 Masterpieces of World Literature
- PHI 1301 Introduction to Philosophy
- PHI 2316 History of Philosophy I
- PHI 2317 History of Philosophy II

Select any 3 semester credit hours from Language, Philosophy and Culture core courses

Creative Arts: 3 semester credit hours
Choose one course from the following:

- ARTS 1301 Exploration of the Arts
- AHST 1303 Survey of Western Art History: Ancient to Medieval
- AHST 1304 Survey of Western Art History: Renaissance to Modern
- AHST 2331 Understanding Art
- DANC 1310 Understanding Dance
- DRAM 1310 Understanding Theater
- FILM 2332 Understanding Film (Recommended)
- MUSI 1306 Understanding Music

American History: 6 semester credit hours
Choose two courses from the following:

- HIST 1301 U.S. History Survey to Civil War
- HIST 1302 U.S. History Survey from Civil War
- HIST 2301 History of Texas
- HIST 2330 Themes and Ideas in American History
- HIST 2332 Civil War and Reconstruction

Government / Political Science: 6 semester credit hours
Choose one course from the following:

- GOVT 2305 American National Government
State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
Select any 3 semester credit hours from Social and Behavioral Sciences core courses

Component Area Option: 6 semester credit hours

Choose two courses from the following or other Component Area Option courses:

- A: HM 2340 Creativity
- A: HM 2341 Global Media
- A: HM 2342 Connections in the Arts and Humanities
- A: HM 2343 Science and the Humanities
- A: HM 2344 World Cultures (pending Texas Higher Education Coordinating Board approval)

II. Major Requirements, Lower-Division: 21 semester credit hours

- A: TS 1316 Drawing Foundations
- A: TS 2380 2D Design Foundations

ATEC 2320 Exploration of Arts and Technology
  - or ATEC 2325 Fundamentals of Game Design and Development
  - or ATEC 2326 Computer Animation Processes
  - or ATEC 2385 Sound Design

ATEC 2382 Computer Imaging

ATEC 2384 Basic Design Principles and Practices

CS 1335 Computer Science I for non-majors

CS 2335 Computer Science II for non-majors

III. Major Requirements, Upper-Division: 24 semester credit hours

Major Core Courses

- A: TS 3371 Photography: Black/White
  - or A: TS 3372 Photography: Color
  - or A: TS 3377 Photography: Altered Image
  - or A: TS 3379 Photography: New Media

ATEC 3320 Digital Content Design and Usability
  - or ATEC 3325 Introduction to Computer Mediated Communication

Any ATEC 3000 level Animation (ATEC 3317 Modeling and Texturing I)
  - or ATEC 3327 Lighting and Composition I
  - or ATEC 3328 Rigging I
  - or ATEC 3336 Computer Animation I
  - or ATEC 3351 Game Design
  - or ATEC 3310 Audio Technologies

ATEC 4340 Project Management for Arts and Technology
IV. Elective Requirements: 33 semester credit hours

Prescribed Electives: 15 semester credit hours

Choose any five courses from the following:

- ATEC 3310 Audio Technologies
- ATEC 3312 Audio Productions Lab
- ATEC 3317 Modeling and Texturing I
- ATEC 3324 Computer Modeling for Digital Fabrication
- ATEC 3326 Emerging Media Production
- ATEC 3327 Lighting and Composition I
- ATEC 3328 Rigging I
- ATEC 3330 Digital Video Production I
- ATEC 3331 Sound Design for Linear and Non-linear Media
- ATEC 3332 Additive Processes in Digital Fabrication
- ATEC 3334 Laser Cutting in Digital Fabrication
- ATEC 3335 Scanned Data in Digital Fabrication
- ATEC 3336 Computer Animation I
- ATEC 3338 Digital Applications in Sculpture
- ATEC 3339 Projection Mapping Studio
- ATEC 3351 Game Design
- ATEC 3352 User Experience Design for Games
- ATEC 3354 Sound Design for Games and Interactive Media
- ATEC 3355 Scripting for Games I
- ATEC 3356 Games and Narrative I
- ATEC 3361 Internet Studio I
- ATEC 3363 Basic Interaction Design
- ATEC 3364 Level Design I
ATEC 3365 Virtual Environments
ATEC 4310 Digital Audio Processing
ATEC 4312 Advanced Audio Productions lab
ATEC 4322 Digital Sculpting
ATEC 4328 Rigging II
ATEC 4330 Digital Video Production II
ATEC 4336 Computer Animation II
ATEC 4347 Advanced Design
ATEC 4348 Modeling and Texturing II
ATEC 4349 Lighting and Composition II
ATEC 4361 Internet Studio II
ATEC 4365 Level Design II
ATEC 4367 Game Design II
ATEC 4368 User Experience Design for Games II

Free Electives: 18 semester credit hours

Both upper-and lower-division courses may be used as electives, but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major requirements at UT Dallas.

3. Students who are ATEC/CS double degree or who plan to minor in CS must enroll in CS 1336 Programming Fundamentals and CS 1136 Computer Science Laboratory and/or CS 1337 Computer Science I (if placed out of CS 1336 and CS 1337).

4. Students who are ATEC/CS double degree or who plan to minor in CS must enroll in CS 2336 Computer Science II.
School of Arts, Technology, and Emerging Communication

Arts and Technology with Animation Concentration (BA)

Students who complete the major in Arts and Technology receive a thorough grounding in the mutually productive interaction of technology with the arts, with specific emphasis on the interplay of visual art, music, and narrative with the new modes of expression and communication that have emerged from the convergence of computing and media technologies. The program stresses not only the creation but also the potential applications and cultural implications of interactive media. A student majoring in Arts and Technology will be required to channel selected coursework according to individual needs and specialties. Particular attention should be given to the Prescribed Electives for the major, and close consultation with academic advisors is recommended. By selecting courses from a variety of the remaining elective headings, students are able to combine courses in technology and fine arts with coursework in literary criticism and interpretation, creative writing and translation, and linguistics and languages.

Unless otherwise noted, courses in Arts and Technology are open to all students in the university. However, students majoring in Arts and Technology may be given preference in certain course enrollments.

Bachelor of Arts in Arts and Technology with Animation Concentration

Degree Requirements (120 semester credit hours)¹

I. Core Curriculum Requirements: 42 semester credit hours²

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

Choose one course from the following:

MATH 1306 College Algebra for the Non-Scientist
MATH 1314 College Algebra
Or select any 3 semester credit hours from Mathematics core courses

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses

Language, Philosophy and Culture: 3 semester credit hours

Choose one course from the following:
HUMA 1301 Exploration of the Humanities
LIT 2331 Masterpieces of World Literature
PHIL 1301 Introduction to Philosophy
PHIL 2316 History of Philosophy I
PHIL 2317 History of Philosophy II

OR select any 3 semester credit hours from Language, Philosophy and Culture core courses

Creative Arts: 3 semester credit hours

Choose one course from the following:

ARTS 1301 Exploration of the Arts
AHST 1303 Survey of Western Art History: Ancient to Medieval
AHST 1304 Survey of Western Art History: Renaissance to Modern
AHST 2331 Understanding Art
DANC 1310 Understanding Dance
DRAM 1310 Understanding Theater
FILM 2332 Understanding Film (Recommended)
MUSI 1306 Understanding Music

American History: 6 semester credit hours

Choose two courses from the following:

HIST 1301 U.S. History Survey to Civil War
HIST 1302 U.S. History Survey from Civil War
HIST 2301 History of Texas
HIST 2330 Themes and Ideas in American History
HIST 2332 Civil War and Reconstruction

Government / Political Science: 6 semester credit hours

GOVT 2305 American National Government
GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

Select any 3 semester credit hours from Social and Behavioral Sciences core courses

Component Area Option: 6 semester credit hours

Choose two courses from the following or other Component Area Option:

ARHM 2340 Creativity
ARHM 2341 Global Media
ARHM 2342 Connections in the Arts and Humanities
II. Major Requirements, Lower-Division: 21 semester credit hours

ARHM 2343 Science and the Humanities
ARHM 2344 World Cultures (pending Texas Higher Education Coordinating Board approval)

II. Major Requirements, Lower-Division: 21 semester credit hours

ARTS 1316 Drawing Foundations
ARTS 2380 2D Design Foundations
ATEC 2326 Computer Animation Processes
ATEC 2382 Computer Imaging
ATEC 2384 Basic Design Principles and Practices
CS 1335 Computer Science I for Non-majors
CS 2335 Computer Science II for Non-majors

III. Major Requirements, Upper-Division: 24 semester credit hours

Major Core Courses

ARTS 3371 Photography: Black/White or ARTS 3372 Photography: Color
or ARTS 3377 Photography: Altered Image
or ARTS 3379 Photography: New Media

ATEC 3320 Digital Content Design and Usability
or ATEC 3325 Introduction to Computer Mediated Communication

ATEC 3317 Modeling and Texturing I
or ATEC 3327 Lighting and Composition I
or ATEC 3328 Rigging I
or ATEC 3336 Computer Animation I

ATEC 3340 Project Management for Arts and Technology
ATEC 4380 Capstone Project
CS 3360 Computer Graphics for Artists and Designers
HIST 3337 Technology and Western Civilization
or HIST 3374 American Technological Development
or HIST 3332 History of the Electronic Age
LIT 3334 Literature of Science
or LIT 3316 The Literature of Science Fiction
or LIT 3317 The Literature of Fantasy
or HIST 3328 History and Philosophy of Science and Medicine

IV. Elective Requirements: 33 semester credit hours
Prescribed Electives: 15 semester credit hours

Choose any five courses from the following: at least 2 must be 4000 level

- ATEC 3317 Modeling and Texturing I
- ATEC 3327 Lighting and Composition I
- ATEC 3328 Rigging I
- ATEC 3336 Computer Animation I
- ATEC 3318 Pre-Production Design
- ATEC 4322 Digital Sculpting
- ATEC 4328 Rigging II
- ATEC 4336 Computer Animation II
- ATEC 4347 Advanced Design
- ATEC 4348 Modeling and Texturing II
- ATEC 4349 Lighting and Composition II
- ATEC 4351 Animation Studio I
- ATEC 4352 Animation Studio II
- ATEC 4322 Digital Sculpting
- ATEC 4371 Topics in Animation

Free Electives: 18 semester credit hours

Both upper-and lower-division courses may be used as electives, but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

1. Incoming freshmen must enroll and complete requirements of U-IV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take U-IV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. Students who are ATEC/CS double degree or who plan to minor in CS must enroll in CS 1336 Programming Fundamentals and CS 1136 Computer Science Laboratory and/or CS 1337 Computer Science I (if placed out of CS 1336 and CS 1136).

4. Students who are ATEC/CS double degree or who plan to minor in CS must enroll in CS 2336 Computer Science II.
School of Arts, Technology, and Emerging Communication

Arts and Technology with Gaming Concentration (BA)

Students who complete the major in Arts and Technology receive a thorough grounding in the mutually productive interaction of technology with the arts, with specific emphasis on the interplay of visual art, music, and narrative with the new modes of expression and communication that have emerged from the convergence of computing and media technologies. The program stresses not only the creation but also the potential applications and cultural implications of interactive media. A student majoring in Arts and Technology will be required to channel selected coursework according to individual needs and specialties. Particular attention should be given to the Prescribed Electives for the major, and close consultation with academic advisors is recommended. By selecting courses from a variety of the remaining elective headings, students are able to combine courses in technology and fine arts with coursework in literary criticism and interpretation, creative writing and translation, and linguistics and languages.

Unless otherwise noted, courses in Arts and Technology are open to all students in the university. However, students majoring in Arts and Technology may be given preference in certain course enrollments.

Bachelor of Arts in Arts and Technology with Gaming Concentration

Degree Requirements (120 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

Choose one course from the following:

MATH 1306 College Algebra for the Non-Scientist
MATH 1314 College Algebra

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses

Language, Philosophy and Culture: 3 semester credit hours

Select any 6 semester credit hours from Language, Philosophy and Culture core courses
Choose one course from the following:

- HUMA 1301 Exploration of the Humanities
- LIT 2331 Masterpieces of World Literature
- PHIL 1301 Introduction to Philosophy
- PHIL 2316 History of Philosophy I
- PHIL 2317 History of Philosophy II

Or select any 3 semester credit hours from Language, Philosophy and Culture core courses

Creative Arts: 3 semester credit hours

Choose one course from the following:

- ARTS 1301 Exploration of the Arts
- AHST 1303 Survey of Western Art History: Ancient to Medieval
- AHST 1304 Survey of Western Art History: Renaissance to Modern
- AHST 2331 Understanding Art
- DANC 1310 Understanding Dance
- DRAM 1310 Understanding Theater
- FILM 2332 Understanding Film (Recommended)
- MUSI 1306 Understanding Music

American History: 6 semester credit hours

Choose two courses from the following:

- HIST 1301 U.S. History Survey to Civil War
- HIST 1302 U.S. History Survey from Civil War
- HIST 2301 History of Texas
- HIST 2330 Themes and Ideas in American History
- HIST 2332 Civil War and Reconstruction

Government / Political Science: 6 semester credit hours

- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

Select any 3 semester credit hours from Social and Behavioral Sciences core courses

Component Area Option: 6 semester credit hours

Choose two courses from the following or other Component Area Option:

- ARHM 2340 Creativity
II. Major Requirements, Lower-Division: 21 semester credit hours

- ARTS 1316 Drawing Foundations
- ARTS 2380 2D Design Foundations
- ATEC 2320 Introductory Topics in Arts and Technology
  or ATEC 2325 Fundamentals of Game Design and Development
  or ATEC 2326 Computer Animation Processes
- ATEC 2382 Computer Imaging
- ATEC 2384 Basic Design Principles and Practices
- CS 1335 Computer Science I for Non-majors
- CS 2335 Computer Science II for Non-majors

III. Major Requirements, Upper-Division: 24 semester credit hours

Major Core Courses

- ARTS 3371 Photography: Black/White
  or ARTS 3372 Photography: Color
  or ARTS 3377 Photography: Altered Image
  or ARTS 3379 Photography: New Media

- ATEC 3320 Digital Content Design and Usability
  or ATEC 3325 Introduction to Computer Mediated Communication

Any ATEC 3000 level Animation (ATEC 3317 Modeling and Texturing I)
  or ATEC 3327 Lighting and Composition I
  or ATEC 3328 Rigging I
  or ATEC 3336 Computer Animation I
  or ATEC 3351 Game Design I
  or ATEC 3310 Audio Technologies
- ATEC 4340 Project Management for Arts and Technology
- ATEC 4380 Capstone Project
- CS 3360 Computer Graphics for Artists and Designers
- HIST 3337 Technology and Western Civilization
  or HIST 3374 American Technological Development
  or HIST 3332 History of the Electronic Age
- LIT 3334 Literature of Science
  or LIT 3316 The Literature of Science Fiction
  or LIT 3317 The Literature of Fantasy
  or HIST 3328 History and Philosophy of Science and Medicine
IV. Elective Requirements: 33 semester credit hours

Prescribed Electives: 15 semester credit hours

Choose any five courses from the following: at least 2 must be 4000 level

ATEC 3352 User Experience Design for Games I
ATEC 3353 Game Studies
ATEC 3354 Sound Design for Games and Interactive Media
ATEC 3355 Scripting for Games I
ATEC 3356 Games and Narrative I
ATEC 3364 Level Design I
ATEC 3365 Virtual Environments
ATEC 4365 Level Design II
ATEC 4367 Game Design II
ATEC 4368 User Experience Design for Games II
ATEC 4350 Game Production Lab
ATEC 4373 Topics in Game Development

Free Electives: 18 semester credit hours

Both upper- and lower-division courses may be used as electives, but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

1. Incoming freshmen must enroll and complete requirements of U IV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take U IV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. Students who are ATEC/CS double degree or who plan to minor in CS must enroll in CS 1336 Programming Fundamentals and CS 1136 Computer Science Laboratory and/or CS 1337 Computer Science I (if placed out of CS 1336 and CS 1136).

4. Students who are ATEC/CS double degree or who plan to minor in CS must enroll in CS 2336 Computer Science II.
Emerging Media and Communication (BA)

Students who complete the Emerging Media and Communication (EMAC) major are challenged to understand the social and cultural implications of communication in an ‘always on’ world. The program reflects a commitment to the concept of applied humanities, as the curriculum balances theoretical understanding drawn from media studies, communication, psychology, and humanities with opportunities for practical application. These diverse perspectives will help a student majoring in EMAC develop the critical skills and technological expertise to become a communicator for the twenty-first century prepared to succeed in the shifting media landscape by using critical, creative, and collaborative skills to:

- Develop creative ways to use emerging technology to express ideas and solve problems,
- Analyze communication opportunities to determine appropriate media and rhetorical strategies when creating content for existing and/or emerging media platforms,
- Adapt messages to audiences and technological constraints while retaining (and amplifying) the benefits provided by emerging media, and
- Anticipate the ethical implications of emerging media and their power to shape public opinion.

Unless otherwise noted, courses in Emerging Media and Communication are open to all students in the university.

Faculty List Placeholder

Bachelor of Arts in Emerging Media and Communication

*Degree Requirements (120 semester credit hours)*

1. **Core Curriculum Requirements: 42 semester credit hours**

   Communication: 6 semester credit hours

   - COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302  Rhetoric

Mathematics: 3 semester credit hours

Choose 1 course from the following:

- MATH 1306 College Algebra for the Non-Scientist
- MATH 1314 College Algebra (Recommended)
- select any 3 semester credit hours from Mathematics core courses

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses

Language, Philosophy and Culture: 3 semester credit hours

Choose 1 course from the following:

- HUMA 1301 Exploration of the Humanities (Recommended)
- HI 2331 Masterpieces of World Literature
- PHI 1301 Introduction to Philosophy (Recommended)
- PHI 2316 History of Philosophy I
- PHI 2317 History of Philosophy II

Select any 3 semester credit hours from Language, Philosophy and Culture core courses

Creative Arts: 3 semester credit hours

Choose 1 course from the following:

- ARTS 1301 Exploration of the Arts
- AHST 1303 Survey of Western Art History: Ancient to Medieval
- AHST 1304 Survey of Western Art History: Renaissance to Modern
- AHST 2331 Understanding Art
- DANC 1310 Understanding Dance
- DRAM 1310 Understanding Theater
- FILM 2332 Understanding Film (Recommended)
- MUSI 1306 Understanding Music

American History: 6 semester credit hours

Choose 2 courses from the following:

- HIST 1301 U.S. History Survey to Civil War
- HIST 1302 U.S. History Survey from Civil War
- HIST 2301 History of Texas
HIST 2330 Themes and Ideas in American History
HIST 2332 Civil War and Reconstruction

Government / Political Science: 6 semester credit hours
GVT 2305 American National Government
GVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
PSY 2301 Introduction to Psychology

Component Area Option: 6 semester credit hours
Choose 2 courses from the following or other Component Area Option courses:
AHM 2340 Creativity
AHM 2341 Global Media
AHM 2342 Connections in the Arts and Humanities
AHM 2343 Science and the Humanities
AHM 2344 World Cultures (pending Texas Higher Education Coordinating Board approval)

II. Major Requirements, Lower-Division: 18 semester credit hours
ATEC 2321 Writing and Research for Emerging Media
ATEC 2322 Theories of Emerging Media and Communications
ATEC 2382 Computer Imaging
ATEC 2384 Basic Design Principles and Practices
ATEC 2385 Sound Design
PSY 2317 Statistics for Psychology

III. Major Requirements, Upper-Division: 27 semester credit hours
Major Core Courses
ATEC 3326 Emerging Media Production
ATEC 3361 Internet Studio I
ATEC 4326 Advanced Emerging Media Production
CMM 3300 Leading Media Critically
CMM 3311 Interpersonal Communication
CMM 4314 Persuasion
EMAC 4325 Digital Writing
EMAC 4380 Capstone Project
PSY 3331 Social Psychology

IV. Elective Requirements: 33 semester credit hours

Prescribed Electives: 18 semester credit hours

Choose any six courses from the following:

A: TS 4308 Image/Text
ATEC 3330 Digital Video Production I
ATEC 3363 Basic Interaction Design
ATEC 4330 Digital Video Production II
ATEC 4346 Story-Telling for New Media
ATEC 4347 Advanced Design
ATEC 4361 Internet Studio II
CGS 4352 Human Computer Interactions I
CGS 4353 Human Computer Interactions II
C: MM 3301 Business and Professional Communication
C: MM 3342 Advanced Topics in Communication
C: MM 3351 History and Theory of Communication
C: MM 3352 Media and Culture
C: MM 4340 Small Group Communication
C: MM 4351 U.S. Culture and Communication
C: MM 4350 Intercultural Communication
C: MM 4360 Communication Ethics
C: WT 3308 Creating Nonfictions
EMAC 3328 The Digital Society
EMAC 3343 Social Networks
EMAC 4372 Topics in Emerging Media and Communication
PHI 4310 Philosophy of Technology
PSY 3351 Mass Communication and Behavior
PSY 3355 Psychology of Creativity

Free Electives: 15 semester credit hours

Both upper-and lower-division courses may be used as electives, but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.
1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major requirements at UT Dallas.

3. Repeatable for credit up to 6 semester credit hours.
School of Behavioral and Brain Sciences (BBSC)
2015-16 Undergraduate Catalog

Degree Programs
School of Behavioral and Brain Sciences

The School of Behavioral and Brain Sciences at The University of Texas at Dallas offers degrees in Child Learning and Development; Cognitive Science; Neuroscience; Psychology; and Speech-Language Pathology and Audiology. The Child Learning and Development program provides students a research-based approach to understanding child development as a preparation for careers as teachers, researchers, service providers, and policy makers. The Cognitive Science program provides a multidisciplinary approach to the study of the mind and behavior that incorporates methodology from the fields of philosophy, psychology, neuroscience, and computer science. The Neuroscience program provides students the opportunity to study the nervous system from a multidisciplinary approach that combines the study of brain structure, biochemistry, and physiology, and their links to behavior. The Psychology program provides basic training in the study of mind and behavior as preparation for graduate training in psychology, counseling and related fields, as well as providing courses that may be relevant to employment in human resources or research support positions. The Speech-Language Pathology and Audiology program offers study in the processes and disorders of speech, language, and hearing. The program provides the foundation for graduate work leading to careers as a speech-language pathologist or audiologist. Students meeting BS degree and clinical practicum requirements are eligible for Texas state licensure as a speech-language pathology assistant.

The School of Behavioral and Brain Sciences (BBS) offers a number of services and programs for students. Academic Advising by a staff of professional advisors is available for all students, and students are encouraged to meet with their advisors on a regular basis. BBS sponsors events and workshops designed to inform students of research opportunities, career paths, and how to prepare for application to graduate and professional schools. BBS works closely with the UT Dallas Career Center to assist students with exploring careers, opportunities for co-op experiences, resume-writing workshops, and practice in interview skills. BBS also offers PSY 3100 Careers in Psychology, a course that explores career and graduate school paths for students in the School of Behavioral and Brain Sciences. This course is offered in the spring and fall semesters and has limited enrollment. It is recommended that students take this course during the sophomore year or early in the junior year.

The school’s Internship Placement Program is open to all students who have achieved junior or senior standing (more than 53 semester credit hours) and a minimum 2.500 GPA (grade point average). Students earn course credit for working 8 hours per week at an approved community agency of their choice. The program has over 70 established placement sites. Students keep daily job diaries, attend one class meeting per month, and write brief papers relevant to their experiences.

The Honors Program of the School of Behavioral and Brain Sciences (BBS) provides enriching research and writing experiences in a mentoring environment with individual members of the faculty. These opportunities attempt to promote greater success in admission to top-ranked graduate schools and/or employment in chosen careers. The Program consists of the Honors Thesis Core, completed by all students in the Honors Program, and a Dean's Scholars’ Tier that is completed in addition to the Thesis Core by a subset of students who wish to pursue doctoral-level professional careers and to serve the School of BBS. Students are eligible for admission to the Program after completing at least 12 graded semester credit hours at UT Dallas including 2 core courses in the student's major and achieving the GPA(s) required. Separate emails are sent notifying students when/how to apply during the fall semester for the Honors Program (Thesis Core) and during the spring semester for the Dean's Scholars’ Tier, approximately 2-3 weeks before the application period begins.
To earn BBS School Honors, students must meet the following criteria: (1) at least 30 graded semester credit hours at UT Dallas, (2) at least 12 semester credit hours in BBS major core courses, (3) an overall UT Dallas GPA of at least 3.500 (Honors Thesis Core) and of at least 3.600 (Dean's Scholars' Tier), (4) successful completion of the Honors Seminar (offered in the spring semester) or approved substitute activities, and (5) completion of an Honors Thesis with a grade of at least B+. Students in the Dean's Scholars' Tier must meet these additional criteria: successful completion of (6) the Dean's Scholars' Seminar (offered in the fall semester) and (7) multiple service activities to the School. School Honors with Distinction may be achieved by students whose theses are judged by a faculty committee to be of exemplary quality.

Minors

To minor in the School of Behavioral and Brain Sciences, students must take a minimum of 18 semester credit hours for the minor, 12 of which must be upper-division semester credit hours. Students who take a minor will be expected to meet the normal prerequisites in courses making up the minor, and should maintain a minimum GPA of 2.000 on a 4.0 scale (C average). The minors in the School of Behavioral and Brain Science are listed below:

- Child Development
- Cognitive Science
- Neuroscience
- Psychology
- Speech Language Pathology and Audiology


Faculty


Professor and Dean Emeritus: J. Michael Coleman

Professor Emeritus: Susan W. Jerger

Associate Professors: Gregory Dussor, Francesca Filbey, Shayla C. Holub, Daniel Krawczyk, Mandy J. Maguire, Christa K. McIntyre, Candice M. Mills, Amy Pinkham, Theodore Price, Pamela R. Rollins, Bart Rypma, Lucien (Tres) Thompson, Sven Vanneste

Assistant Professors: Robert Ackerman, Chandramallika Basak, Heidi S. Kane, Kristen Kennedy, Sven Kröner, Jinkyung Na, Jackie Nelson, Jonathan E. Ploski, Karen Rodrigue, Raúl Rojas, Noah J. Sasson, Jun Wang, Andrea Warner-Czyz, Gagan Wig

Distinguished Scholar in Residence: James F. Jerger

Deleted: Cindy M. DeFrias
Senior Lecturers: Michelle Aldridge, Cheryl L. Bryant, Lucinda Dean, Diane Garst, Joanna Gentsch, Karen Huxtable-Jester, Nancy Juhn, Karen Kaplan, Helen Kenedi, Janice Lougeay, Van Miller, Felicity Sale, Steven McWilliams

Clinical Professor: John Stilwell

Clinical Associate Professors: Jackie Clark, Carol Cokely, Jeffrey S. Martin, Phillip (Lee) Wilson

Updated: September 4, 2014 - Visitor: 689
School of Behavioral and Brain Sciences

Child Learning and Development (BS)

Providing better ways to foster the intellectual and emotional development of all of our children is a national priority. As such, well-educated university graduates are needed to go on to become expert child development practitioners and researchers. Over the last 60 years, the academic disciplines of developmental psychology and child development have accumulated a vast body of research-based knowledge about the factors that promote optimal child learning, development and well-being, as well as those that contribute to disadvantaged child development. The Child Learning and Development major provides undergraduate students a rigorous science-based curriculum that immerses them in the theories, findings, research methods, and best practices that the scientific study of child development has to offer.

The Child Learning and Development major focuses on the fundamental processes of child and adolescent development within the contexts of families, schools, peer groups, and larger cultural milieu. Its three objectives are to provide students with a strong foundation in 1) cognitive, language, and socio-emotional development, 2) research skills for conducting scientific studies and evaluating applied programs, and 3) translating scientific findings into practical applications for understanding and improving children's lives. Opportunities for supervised and independent research, as well as field placements that involve working with children, families, schools, and social services, are provided in addition to formal work.

The Child Learning and Development major prepares students for a wide range of careers in education, psychology, social work, family medicine, public health, family law, and public policy. The major is especially well suited for students seeking elementary teacher certification (early childhood - 6th grade) through UT Dallas' Teacher Development Center. By combining a major in Child Learning and Development with elementary teacher certification, students will develop a strong foundation in child development and teaching. Elementary Teacher Certification requires a minimum of 45 additional semester credit hours of coursework that can be completed within the free elective semester credit hours of the Child Learning and Development major. If you are interested in this combined child development/education program (called CLD/EC6), see an advisor to develop a degree plan.

Bachelor of Science in Child Learning and Development

Degree Requirements (120 semester credit hours) 

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

Choose one course from the following:
MATH 1306 College Algebra for the Non-Scientist
MATH 1314 College Algebra
or MATH 2417 Calculus I

Life and Physical Sciences: 6 semester credit hours
Select 6 semester credit hours from Life and Physical Sciences core courses (see CLDP advisor for options)

Language, Philosophy and Culture: 3 semester credit hours
Choose one course from the following:
- HUMA 1301 Exploration of the Humanities
- LIT 2331 Masterpieces of World Literature
- PHIL 1301 Introduction to Philosophy
- PHIL 2316 History of Philosophy I
- PHIL 2317 History of Philosophy II

Creative Arts: 3 semester credit hours
Choose one course from the following:
- ARTS 1301 Exploration of the Arts
- AHST 1303 Survey of Western Art History: Ancient to Medieval
- AHST 1304 Survey of Western Art History: Renaissance to Modern
- AHST 2331 Understanding Art
- DANC 1310 Understanding Dance
- DRAM 1310 Understanding Theater
- FILM 2332 Understanding Film
- MUSI 1306 Understanding Music

American History: 6 semester credit hours
Choose two courses from the following:
- HIST 1301 U.S. History Survey to Civil War
- HIST 1302 U.S. History Survey from Civil War
- HIST 2301 History of Texas
- HIST 2330 Themes and Ideas in American History
- HIST 2332 Civil War and Reconstruction

Government / Political Science: 6 semester credit hours
- GOVT 2305 American National Government
GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

PSY 2301 Introduction to Psychology

Component Area Option: 6 semester credit hours

PSY 2317 Statistics for Psychology
or STAT 1342 Statistical Decision Making

AND one of the following:

PSY 2314 Lifespan Development
PSY 2364 Animal Communication
CGS 2301 Cognitive Science

II. Major Requirements: 36 semester credit hours

Major Preparatory Courses: 6 semester credit hours

PSY 2301 Introduction to Psychology
PSY 2317 Statistics for Psychology
or STAT 1342 Statistical Decision Making

Major Core Courses: 21 semester credit hours

CLDP 3303 Normal Language Development
or CLDP 3305 Language and Literacy Development
CLDP 3310 Child Development
or CLDP 3339 Educational Psychology
CLDP 3332 Social and Personality Development
CLDP 3342 Exceptional Children
or CLDP 4344 Child Psychopathology
CLDP 3362 Cognitive Development
or CLDP 3365 Child Learning
PSY 3392 Research Design and Analysis
CLDP 3394 Research and Evaluation Methods

Major Related Courses (15 upper-division semester credit hours)

Guided Electives: 3 semester credit hours

CLDP 4394 Internship
or CLDP 4395 Co-op Fieldwork
or CLDP 4397 Honors Thesis
or CLDP 4V98 Directed Research
or CLDP 4V99 Individual Study
Plus 12 semester credit hours of courses with CLDP prefix or any of the following courses: CGS 3342, CGS 4312, CGS 4313, CGS 4314, CGS 4315, CGS 4352, CGS 4353, ED 4352, ED 4363, ED 4357, NSC 3345, NSC 4352, NSC 4353, NSC 4354, NSC 4367, PSY 3331, PSY 3333, PSY 3361, PSY 4331, PSY 4343, PSY 4358, PSY 4362, PSY 4364, PSY 4373, SPAU 3301, SPAU 3304, SPAU 3340, SPAU 3343, SPAU 3344, SPAU 3345, SPAU 4308, or SPAU 4308.

III. Elective Requirements: 42 semester credit hours

Free Electives: 42 semester credit hours

Students are encouraged to explore areas of concentration in Child Learning and Development as well as explore interests outside the field. Be aware that at least 51 semester credit hours of upper-division courses are required for graduation.

**Fast Track Baccalaureate/Master's Degrees**

UT Dallas undergraduate students with strong academic records who intend to pursue a master’s degree in Human Development and Early Childhood Disorders (HDCD) at UT Dallas may consider an accelerated undergraduate-graduate plan of study. If accepted into the program, students may take up to 15 semester credit hours of graduate courses that may be used to complete the baccalaureate degree and also to satisfy requirements for the master’s degree. Students must maintain a 3.000 grade point average and earn grades of B or better in graduate courses taken.

Students should apply for Fast Track admission in the one semester before they reach 90 semester credit hours. To qualify for application, undergraduate students must have completed at least 18 semester credit hours in major core courses at UT Dallas. To be eligible for Fast Track admission, students must have completed at least 90 semester credit hours toward a baccalaureate degree, and meet program admission requirements, including submission of GRE scores. Apply to the Fast Track program through the HDCD Program Office. Students should consult with a graduate advisor regarding admissions criteria and plans of study.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. A required Preparatory course that also fulfills a Core Curriculum requirement. Six (6) semester credit hours are counted in Core Curriculum.

4. Required for EC-6 Teacher Certification.
School of Behavioral and Brain Sciences

Cognitive Science (BS)

Cognitive Science is the study of complex information processing in humans and machines and includes the multidisciplinary study of biological and artificial systems. Important components of cognitive science include areas of research such as: cognitive-neuroscience, brain-imaging studies of perceptual and cognitive processing, situated cognition, Human-Computer-Interactions (HCI), computational modeling, and Artificial Intelligence (AI). The field of cognitive science draws from diverse approaches to understanding complex information processing, including research from experimental psychology, neuroscience, linguistics, philosophy, computer science, mathematics, and engineering.

The Cognitive Science program in the School of Behavioral and Brain Sciences at UT Dallas consists of three concentration areas: (1) Psychology/HCI, (2) Cognitive-Neuroscience, and (3) AI/Computational Modeling. Cognitive Science Majors select the majority of their upper-division coursework from 2 of these 3 concentration areas in order to generate multidisciplinary areas of focus. In addition to providing a sound preparation for graduate work in Cognitive Science and related areas, the Cognitive Science major is an ideal choice for students pursuing careers that combine interests in neuroscience, cognition, mathematics, and computer science. There are exciting career prospects in both industry and academics for the Cognitive Science major.

Cognitive-Neuroscience Careers. Students whose focus area is cognitive-neuroscience will be well prepared for the pursuit of graduate degrees and careers associated with: medicine, clinical neuropsychology, brain-imaging technology, intraoperative neurophysiological monitoring, and evaluation of bionic/prosthetic technology (e.g., cochlear implants and artificial limbs). Students interested in Cognitive-Neuroscience career opportunities typically choose their core coursework from both the specialization areas of Psychology/HCI and Neuroscience.

Human-Computer-Interaction Careers. Students whose focus area is Human-Computer-Interactions (HCI), are prepared for the pursuit of careers in the areas of usability engineering and user-experience (UX) design and development that involve the evaluation and design of human-computer interfaces such as website and software graphical user interfaces (GUIs), smartphone interfaces, and voice-user interfaces (VUIs). Students interested in HCI career opportunities should choose their core coursework from the Psychology/HCI specialization area and include one or more HCI courses.

AI/Computational Modeling Careers. Students whose focus area is AI/computational modeling are prepared for the pursuit of careers associated with the development and evaluation of Artificial Intelligence (AI) technology (e.g., web search engines, speech recognition, robotics, computer vision, and computer games), bionic and prosthetic technology development and evaluation (such as cochlear implant technology), computer-based natural language understanding, data mining, and machine learning as well as the development of computational models to support theory development in the behavioral and brain sciences. Students interested in career opportunities in this area should choose their core coursework from the AI/Computational Modeling specialization area.
Bachelor of Science in Cognitive Science

Degree Requirements (120 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours
- **COMM 1311** Survey of Oral and Technology-based Communication
- **RHET 1302** Rhetoric

Mathematics: 3 semester credit hours
- **MATH 2417** Calculus I
- or **MATH 2413** Differential Calculus (Note: Math 2417 is recommended)

Life and Physical Sciences: 6 semester credit hours
Select 6 semester credit hours from Life and Physical Sciences core courses (see CGS advisor for options)

Language, Philosophy and Culture: 3 semester credit hours
Choose one course from the following:
- **HUMA 1301** Exploration of the Humanities
- **LIT 2331** Masterpieces of World Literature
- **PHIL 1301** Introduction to Philosophy
- **PHIL 2316** History of Philosophy I
- **PHIL 2317** History of Philosophy II

Creative Arts: 3 semester credit hours
Choose one course from the following:
- **AHST 1303** Survey of Western Art History: Ancient to Medieval
- **AHST 1304** Survey of Western Art History: Renaissance to Modern
- **AHST 2331** Understanding Art
- **ARTS 1301** Exploration of the Arts
- **DANC 1310** Understanding Dance
- **DRAM 1310** Understanding Theater
- **FILM 2332** Understanding Film
MUSI 1306 Understanding Music

American History: 6 semester credit hours
Choose two courses from the following:

- HIST 1301 U.S. History Survey to Civil War
- HIST 1302 U.S. History Survey from Civil War
- HIST 2301 History of Texas
- HIST 2330 Themes and Ideas in American History
- HIST 2332 Civil War and Reconstruction

Government / Political Science: 6 semester credit hours

- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

- PSY 2301 Introduction to Psychology

Component Area Option: 6 semester credit hours

- MATH 2419 Calculus II
  - or MATH 2414 Integral Calculus
  - (Note: MATH 2419 is recommended)
- CGS 2301 Cognitive Science

II. Major Requirements: 48-54 semester credit hours (12 semester credit hours beyond Core Curriculum)

Major Preparatory Courses
The following are required for all concentration areas: (24 semester credit hours)

- CGS 2301 Cognitive Science
- CS 1337 Computer Science I
- MATH 2417 Calculus I
  - or MATH 2413 Differential Calculus
- MATH 2419 Calculus II
- MATH 2418 Linear Algebra
- PSY 2301 Introduction to Psychology
- PSY 2317 Statistics for Psychology
  - or CS 3341 Probability and Statistics in Computer Science and Software Engineering

Additional Preparatory Courses for AI/Computational Modeling Area (6 semester credit hours)

- CS 2305 Discrete Mathematics for Computing
CS 2336 Computer Science II

Major Core Courses required for all concentration areas: 12 semester credit hours
CGS 3361 Cognitive Psychology
NSC 3361 Behavioral Neuroscience
PSY 3392 Research Design and Analysis
CGS 3340 Experimental Projects in Cognitive Science
or PSY 3393 Experimental Projects in Psychology

Major Related Courses: 24 semester credit hours
Select 4 courses each from 2 of the following 3 Concentration Areas

Core Courses for Psychology/HCI Concentration Area (select 12 semester credit hours from list of courses below)
CGS 3325 Historical Perspectives on Psychology: Mind and Machines since 1600
CGS 4359 Cognitive Neuroscience (prerequisite: PSY 2301)
CGS 4362 Perception
CGS 4352 Human Computer Interactions I
CGS 4353 Human Computer Interactions II
PSY 3331 Social Psychology
PSY 4343 Abnormal Psychology
PSY 2314 Lifespan Development
PSY 3310 Child Development
PSY 3362 Cognitive Development

Core Courses required for Cognitive-Neuroscience Concentration Area (select 12 semester credit hours from list of courses below)
NSC 4352 Cellular Neuroscience
NSC 4354 Integrative Neuroscience
NSC 4356 Neurophysiology
NSC 4366 Neuroanatomy
Biol 2311
NSC 4363 Neuropharmacology
NSC 4367 Developmental Neurobiology
NSC 4359 Cognitive Neuroscience
NSC 4353 Neuroscience Laboratory Methods
<table>
<thead>
<tr>
<th>Core Courses required for AI/Computational Modeling Concentration Area (select 12 semester credit hours from list of courses below)</th>
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<tbody>
<tr>
<td><strong>CS 3341</strong> Probability and Statistics in Computer Science and Software Engineering</td>
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<tr>
<td><em>(Note that either SE 3341, STAT 3341, or EE 3341 may be used as an equivalent course for CS 3341 for all Cognitive Science program requirements as well as all Cognitive Science course prerequisites.)</em></td>
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<tr>
<td><strong>CGS 3342</strong> Cognitive and Neural Modeling Laboratory</td>
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<td><strong>CGS 4312</strong> Computational Modeling Methods for Language Understanding</td>
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<td><strong>CGS 4313</strong> Neural Net Mathematics <em>(CS 3341)</em></td>
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<td><strong>CGS 4314</strong> Intelligent Systems Analysis</td>
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<td><strong>CGS 4315</strong> Intelligent Systems Design</td>
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<td><strong>CS 3345</strong> Data Structures and Introduction to Algorithmic Analysis</td>
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<td><strong>CS 4365</strong> Artificial Intelligence</td>
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<td><strong>CS 4375</strong> Introduction to Machine Learning</td>
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<tr>
<td><strong>CS 4391</strong> Introduction to Computer Vision <em>(CS 3345)</em></td>
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<tr>
<td><strong>CS 4395</strong> Human Language Technologies</td>
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</tbody>
</table>

**III. Elective Requirements:** 24-30 semester credit hours

Free Electives *(7-18)* semester credit hours for AI/Computational Modeling Concentration Area; 30 semester credit hours for other two concentrations.

Students are encouraged to explore areas of concentration in Cognitive Science, Psychology, and Neuroscience as well as explore interests outside the field. Be aware that at least 51 semester credit hours of upper-division semester credit hours are required for graduation. In addition, advanced CGS students in good academic standing may request permission from the Cognitive Science Program Head to take graduate Applied Cognition and Neuroscience coursework (ACN prefix) to fulfill some of the elective course requirements.

**Fast Track Baccalaureate/Master's Degrees**
UT Dallas undergraduate students with strong academic records who intend to pursue a master's degree in Applied Cognition and Neuroscience at UT Dallas may consider an accelerated undergraduate-graduate plan of study. If accepted into the program, students may take up to 15 semester credit hours of graduate courses that may be used to complete the bachelor's degree and also to satisfy requirements for the Master's degree. Students must maintain a 3.000 grade point average and earn grades of B or better in the graduate courses taken.

Students should apply for Fast Track admission in the semester they reach 90 semester credit hours. To qualify for application, undergraduate students must have completed at least 18 semester credit hours in major core courses at UT Dallas. To be eligible for Fast Track admission, students must have completed at least 90 semester credit hours toward a baccalaureate degree and meet program admission requirements. Apply to the Fast Track program through the Applied Cognition and Neuroscience Program Office. Students should consult with a graduate advisor regarding admissions criteria and plans of study at the beginning of their junior year.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. A required Preparatory course that also fulfills a Core Curriculum requirement. Fourteen semester credit hours (14) are counted in Core Curriculum.
School of Behavioral and Brain Sciences

Neuroscience (BS)

Neuroscience is the multidisciplinary study of brain function that draws on recent advances in cell and molecular biology, biochemistry, biophysics, and computer and behavioral and cognitive sciences. It examines the brain's global and nanoscale biochemistry, its complex and extensively networked anatomical structure, and its remarkably adaptive physiology. The field considers neuronal development from early embryology through advanced senescence, and examines the brain's plasticity from the level of single proteins, of individual neurons, up through the level of networks or systems of cells, on up to complete behaving organisms. It studies the regulation and expression of behavior, the impact of that behavior on the brain, and the complex interactions of multiple neuronal systems that underlie the emergence of cognitive function. The Neuroscience program at UT Dallas provides students with the opportunity to focus on the brain from a systems-level perspective, drawing on behavioral and cognitive expertise combined with cellular and molecular analyses. It allows undergraduates extensive interactions with working neuroscientists who use the latest experimental techniques.

The Neuroscience program is designed to prepare students for admission to graduate, medical, or dental school, or for careers in related biomedical research, industry, and allied health science fields. Required courses and guided electives can include the approved pre-medical curriculum and offer an alternative to other traditional pre-health majors. Students who wish to continue their education in the fields of medicine, dentistry or allied professional areas should register with the Health Professions Advising Center during their first semester. Students are encouraged to design a personalized degree plan of guided electives with their advisor that combines courses from the neurosciences and related disciplines of mathematics, physics, chemistry, biology, engineering, computer science, psychology, and speech pathology and audiology in a way that will suit their individual interests and goals. Students are also strongly encouraged to gain research experience as part of their undergraduate training in Neuroscience.

Students can complete Core Curriculum and Neuroscience major requirements in a minimum of 85 semester credit hours, leaving 35 elective semester credit hours. Students can complete Core Curriculum, Neuroscience major, and pre-health Professions requirements in a minimum of 111 semester credit hours, leaving 9 remaining elective semester credit hours.

Faculty List Placeholder

Bachelor of Science in Neuroscience

Degree Requirements (120 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours
COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Mathematics: 3 semester credit hours
Choose one course from the following:

MATH 2414 Integral Calculus
or MATH 2417 Calculus

Life and Physical Sciences: 6 semester credit hours
CHEM 1311 General Chemistry
BIOL 2311 Introduction to Modern Biology

Language, Philosophy and Culture: 3 semester credit hours
Choose one course from the following:

HUMA 1301 Exploration of the Humanities
LIT 2331 Masterpieces of World Literature
PHIL 1301 Introduction to Philosophy
PHIL 2316 History of Philosophy I
PHIL 2317 History of Philosophy II

Creative Arts: 3 semester credit hours
Choose one course from the following:

AHST 1303 Survey of Western Art History: Ancient to Medieval
AHST 1304 Survey of Western Art History: Renaissance to Modern
AHST 2331 Understanding Art
ARTS 1301 Exploration of the Arts
DANC 1310 Understanding Dance
DRAM 1310 Understanding Theater
FILM 2332 Understanding Film
MUSI 1306 Understanding Music

American History: 6 semester credit hours
Choose two courses from the following:

HIST 1301 U.S. History Survey to Civil War
HIST 1302 U.S. History Survey from Civil War
HIST 2301 History of Texas
HIST 2330 Themes and Ideas in American History
HIST 2332 Civil War and Reconstruction

Government / Political Science: 6 semester credit hours

GOVT 2305 American National Government
GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

PSY 2301 Introduction to Psychology

Component Area Option: 6 semester credit hours

PSY 2317 Statistics for Psychology
or STAT 1342 Statistical Decision Making

AND

CHEM 1312 General Chemistry II

II. Major Requirements: 45 semester credit hours

Major Preparatory Courses: 24 semester credit hours - 6 semester credit hours beyond Core Curriculum

All of the following:

BIOL 2111 Introduction to Modern Biology Workshop I
BIOL 2281 Introductory Biology Laboratory
BIOL 2311 Introduction to Modern Biology
CHEM 1111 General Chemistry Laboratory I
CHEM 1311 General Chemistry I
CHEM 1112 General Chemistry Laboratory II
CHEM 1312 General Chemistry II
MATH 2414 Integral Calculus
or MATH 2417 Calculus I
PSY 2301 Introduction to Psychology
PSY 2317 Statistics for Psychology
or STAT 1342 Statistical Decision Making

Major Core Courses: 24 semester credit hours

All of the following:

NSC 3361 Behavioral Neuroscience
NSC 4352 Cellular Neuroscience
NSC 4353 Neuroscience Laboratory Methods
NSC 4354 Integrative Neuroscience
NSC 4356 Neurophysiology
NSC 4363 Neuropharmacology
NSC 4366 Neuroanatomy

And one emphasis course from the following six:

NSC 4357 Neurobiology of Learning and Memory
  or NSC 4367 Developmental Neurobiology
  or NSC 4371 Neural Plasticity
  or NSC 4373 Sensory Neuroscience
  or NSC 4362 Molecular Neuroscience
  or NSC 4385 Neuropsychology

Major Related Courses: 15 semester credit hours

Guided Electives: 15 semester credit hours from the following list (the Emphasis Course selected above will not count twice as a Guided Elective). Consultation with an advisor is required.

BIOL 3101 Classical and Molecular Genetics Workshop
BIOL 3301 Classical and Molecular Genetics
BIOL 3102 Eukaryotic Molecular and Cell Biology Workshop
BIOL 3302 Eukaryotic Molecular and Cell Biology
BIOL 3161 Biochemistry Workshop I
BIOL 3361 Biochemistry I
BIOL 3162 Biochemistry Workshop II
BIOL 3362 Biochemistry II
BIOL 3455 Human Anatomy and Physiology with Lab I
BIOL 3456 Human Anatomy and Physiology with Lab II
NSC 3344 Anatomy and Physiology of Speech and Hearing
NSC 3345 Neural Basis of Communication
NSC 4188 Dean's Scholar's Seminar
NSC 4351 Medical Neuroscience
NSC 4355 Advanced Neuroscience Laboratory
NSC 4357 Neurobiology of Learning and Memory
NSC 4358 Neuroscience of Pain
NSC 4359 Cognitive Neuroscience
NSC 4362 Molecular Neuroscience
NSC 4364 Journey into Medicine
NSC 4367 Developmental Neurobiology
NSC 4370 Neuroendocrinology
NSC 4371 Neural Plasticity
NSC 4372 Neuroimmunology
NSC 4373 Sensory Neuroscience
NSC 4374 Neuroplasticity in Disorders of the Nervous System
NSC 4375 Honors Seminar
NSC 4376 Neurobiology of Stress
NSC 4378 Neurotoxicology
NSC 4385 Neuropsychology
NSC 4387 Neuropathology
NSC 4388 Medical Physiology
NSC 4394 Internship in Neuroscience
NSC 4V95 Externship in Neuroscience
NSC 4397 Thesis Research
NSC 4V90 Special Topics in Neuroscience
NSC 4V96 Teaching Internship
NSC 4V98 Directed Research
NSC 4V99 Independent Study
PSY 4362 Perception
SPAU 3304 Communication Sciences

III. Elective Requirements: 33 semester credit hours

Free Electives: 33 semester credit hours

At least 33 semester credit hours of lower- or upper-division courses of the student's choice. Students are encouraged to explore areas of concentration in Neuroscience as well as explore interests outside the field. Be aware that at least 51 semester credit hours of upper-division courses are required for graduation.

Pre-medical and/or other pre-health professions students should take the following required courses as part of their concentration and as free electives:

Required pre-medical courses (12 semester credit hours)

BIOL 2112 Introduction to Modern Biology II Workshop
BIOL 2312 Introduction to Modern Biology II
CHEM 2123 Introductory Organic Chemistry Laboratory I
CHEM 2125 Introductory Organic Chemistry Laboratory II
CHEM 2323 Introductory Organic Chemistry I
CHEM 2326 Introductory Organic Chemistry II
Pre-med Advanced Biology requirement (8 semester credit hours, select 2 courses and corresponding workshop courses)

BIOL 3101 Classic and Molecular Genetics Workshop
BIOL 3301 Classic and Molecular Genetics
BIOL 3102 Eukaryotic Molecular and Cell Biology Workshop
BIOL 3302 Eukaryotic Molecular and Cell Biology
BIOL 3161 Biochemistry Workshop I
BIOL 3361 Biochemistry I
BIOL 3162 Biochemistry Workshop II
BIOL 3362 Biochemistry II

Pre-med Physics requirement (8 semester credit hour semester credit hours, select 2 courses and corresponding lab courses)

PHYS 1101 College Physics Laboratory I
PHYS 1102 College Physics Laboratory II
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 2125 Physics Laboratory I
PHYS 2126 Physics Laboratory II
PHYS 2325 Mechanics
PHYS 2326 Electromagnetism and Waves

Pre-med electives (5 semester credit hours)

Fast Track Baccalaureate/Master's Degrees

UT Dallas undergraduate students with strong academic records who intend to pursue a master's degree in Applied Cognition and Neuroscience at UT Dallas may consider an accelerated undergraduate-graduate plan of study. If accepted into the program, students may take up to 15 semester credit hours of graduate courses that may be used to complete the baccalaureate degree and also satisfy requirements for the master's degree. Students must maintain a 3.000 grade point average and earn grades of B or better in graduate courses taken.

Students should apply for Fast Track admission in the one semester before they reach 90 semester credit hours. To qualify for application, undergraduate students must have completed at least 18 semester credit hours in major core courses at UT Dallas. To be eligible for Fast Track admission, students must have completed at least 90 semester credit hours toward a baccalaureate degree, and meet program admission requirements. Apply to the Fast Track program through the Applied Cognition and Neuroscience Program Office. Students should consult with a graduate advisor regarding admissions criteria and plans of study.
1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from accredited institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. A required preparatory course that also fulfills a Core Curriculum requirement. Eighteen (18) semester credit hours are counted in Core Curriculum.

4. May be repeated for credit, up to 9 semester credit hours.

5. May be repeated for credit, up to 6 semester credit hours.

6. Algebra-based Physics courses

7. Calculus-based Physics courses

Deleted: Students must have completed at least 90 semester credit hours toward a baccalaureate degree before beginning Fast Track coursework. Students should apply to admissions one semester before they reach 90 semester credit hours. To qualify for application, undergraduate students must have completed at least 18 semester credit hours in major core courses at UT Dallas. Apply to the Fast Track program through the Applied Cognition and Neuroscience Program Office. Students should consult with a graduate advisor regarding admissions criteria and plans of study.

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Deleted: Incoming freshmen must complete and pass UNIV 1010 Freshman Seminar and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.
School of Behavioral and Brain Sciences

Psychology (BS)

William James characterized psychology as "the study of mental life." Psychology is both a domain of scientific inquiry and a field of applied practice. The science of psychology is concerned with the study of how people perceive, learn, feel, think, develop, and interact with others. The practice of psychology helps people improve mental health, learning, and performance.

Undergraduate degrees in psychology provide students a number of career options. Further study in graduate school leads to professional careers as clinical, counseling, industrial, academic, and other kinds of psychologists. Psychology is also a useful major for students planning careers in law, management, medicine, or social work. A psychology major provides students with the knowledge about human behavior and methods of research and data analysis that is valuable in business, helping fields, and many other occupations.

The Psychology program at UT Dallas approaches the field from a scientific perspective, applying behavioral science research methods to the study of the human mind and behavior. Thus, students will have laboratory experiences in addition to lectures, reading, and demonstrations. Psychology students learn to evaluate evidence relating to theories of social behavior, personality development, perception, memory, brain processes, and other facets of human experience. Students also gain hands-on experience through internship placements, directed research experiences in professors' labs, and individualized study with faculty in specialized topics.

The undergraduate degree awarded through the Psychology program is a bachelor of science. Students may choose electives to obtain a broader grounding in psychology or a general education in the liberal arts. Students should note that it is possible to select clusters of electives that lead to particular concentrations in careers and graduate study. Students can complete Core Curriculum and Psychology major requirements in a minimum of 78 semester credit hours, leaving 42 elective semester credit hours.

Bachelor of Science in Psychology

Degree Requirements (120 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric
Mathematics: 3 semester credit hours

Choose one course from the following:
- MATH 1306 College Algebra for the Non-Scientist
- MATH 1314 College Algebra
  or MATH 2417 Calculus I

Life and Physical Sciences: 6 semester credit hours

Select 6 semester credit hours from Life and Physical Sciences core courses (see PSY Advisor for options)

Language, Philosophy and Culture: 3 semester credit hours

Choose one course from the following:
- HUMA 1301 Exploration of the Humanities
- LIT 2331 Masterpieces of World Literature
- PHIL 1301 Introduction to Philosophy
- PHIL 2316 History of Philosophy I
- PHIL 2317 History of Philosophy II

Creative Arts: 3 semester credit hours

Choose one course from the following:
- AHST 1303 Survey of Western Art History: Ancient to Medieval
- AHST 1304 Survey of Western Art History: Renaissance to Modern
- AHST 2331 Understanding Art
- ARTS 1301 Exploration of the Arts
- DANC 1310 Understanding Dance
- DRAM 1310 Understanding Theater
- FILM 2332 Understanding Film
- MUSI 1306 Understanding Music

American History: 6 semester credit hours

Choose two courses from the following:
- HIST 1301 U.S. History Survey to Civil War
- HIST 1302 U.S. History Survey from Civil War
- HIST 2301 History of Texas
- HIST 2330 Themes and Ideas in American History
- HIST 2332 Civil War and Reconstruction
Government / Political Science: 6 semester credit hours

   GOVT 2305 American National Government
   GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

   PSY 2301 Introduction to Psychology

Component Area Option: 6 semester credit hours

   PSY 2317 Statistics for Psychology
   or STAT 1342 Statistical Decision Making

AND one of the following:

   PSY 2314 Lifespan Development
   PSY 2364 Animal Communication
   CGS 2301 Cognitive Science

II. Major Requirements: 36 upper-division semester credit hours

Major Preparatory Courses: 6 semester credit hours (0 semester credit hours beyond Core Curriculum)

   PSY 2301 Introduction to Psychology
   PSY 2317 Statistics for Psychology
   or STAT 1342 Statistical Decision Making

Major Core Courses: 24 upper-division semester credit hours

   NSC 3361 Behavioral Neuroscience
   PSY 3360 Historical Perspectives on Psychology: Mind and Machines since 1600
   PSY 3361 Cognitive Psychology
   or PSY 4359 Cognitive Neuroscience
   PSY 3392 Research Design and Analysis
   PSY 3393 Experimental Projects in Psychology
   PSY 3331 Social Psychology
   PSY 3310 Child Development
   PSY 4343 Abnormal Psychology

Major Related Courses: 12 upper-division semester credit hours

Guided Electives; 3 semester credit hours of one of the following:
PSY 4394 Internship in Psychology
PSY 4395 Co-op Fieldwork
PSY 4V96 Teaching Internship
PSY 4397 Thesis Research
PSY 4V98 Directed Research
PSY 4V99 Independent Study

Plus any 9 semester credit hours of courses with PSY or CGS or CLDP or NSC prefixes or the following courses: SPAU 3301, SPAU 3303, SPAU 3304, SPAU 3340, SPAU 3343, SPAU 3344, SPAU 3345 or SPAU 4308.

III. Elective Requirements: 42 semester credit hours

Free Electives: 42 semester credit hours

Electives are selected by students to explore areas of concentration in Psychology as well as explore interests outside the field. Both lower- and upper-division courses may count as electives but students must be sure to complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

Fast Track Baccalaureate/Master's Degrees

UT Dallas undergraduate students with strong academic records who intend to pursue a master's degree in Human Development and Early Childhood Disorders or in Applied Cognition and Neuroscience at UT Dallas may consider an accelerated undergraduate-graduate plan of study. If accepted into the program, students may take up to 15 semester credit hours of graduate courses that may be used to complete the baccalaureate degree and also to satisfy requirements for the master's degree. Students must maintain a 3.00 grade point average and earn grades of B or better in graduate courses taken.

Students should apply for Fast Track admission in the one semester before they reach 90 semester credit hours. To qualify for application, undergraduate students must have completed at least 18 semester credit hours in major core courses at UT Dallas. To be eligible for Fast Track admission, students must have completed at least 90 semester credit hours toward a baccalaureate degree and meet program admission requirements, including submission of GRE scores. Apply to the Fast Track program through the Program Office of the master’s program. Students should consult with a graduate advisor regarding admissions criteria and plans of study.

Comment [MV1]: Approved by CUE/CEP 3-19-15.
Comment [MV2]: Fast track language revisions submitted by Dr. Spence via email on 3-19-15.

Deleted: Students must have completed at least 90 semester credit hours toward a baccalaureate degree before beginning Fast Track coursework. Students should apply to admissions one semester before they reach 90 semester credit hours. To qualify for application, undergraduate students must have completed at least 18 semester credit hours in major core courses at UT Dallas. Apply to the Fast Track program through the Cognitive Science Program Office. Students should consult with a graduate advisor regarding admissions criteria and plans of study.

Students should consult with a graduate advisor regarding admissions criteria and plans of study.

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Deleted: Incoming freshmen must complete and pass UNIV 1010 Freshman Seminar and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.
3. A required Preparatory course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.
School of Behavioral and Brain Sciences

Speech-Language Pathology and Audiology (BS)

The Speech-Language Pathology and Audiology program offers study in the processes and disorders of speech, language, and hearing. The program provides the foundation for graduate study leading to career opportunities and clinical certification as a speech-language pathologist or audiologist. Students are advised that admission to graduate programs in Speech-Language Pathology and Audiology are presently highly competitive. Only students with strong academic records should select this major.

The curriculum in Speech-Language Pathology and Audiology focuses on the development of communicative abilities; the anatomical and physiological mechanisms underlying speech, language, and hearing; the causes of communication disorders in children and adults; and theories and techniques of assessment and treatment of communication disorders.

Students majoring in Speech-Language Pathology and Audiology are strongly encouraged to select electives in Psychology to complement coursework in their major field. Suggested electives in the major include SPAU 3305 Language and Literacy Development, SPAU 3342 or PSY 3342 Exceptional Children, SPAU 4342 Assessment Procedures in Speech-Language Pathology, SPAU 4366 Clinical Report Writing, SPAU 4386 Adult Development and Aging, and SPAU 4395 Issues in the Management of Persons with Hearing Impairment.

Students who plan to attend graduate school in speech-language pathology or audiology should be aware that clinical certification by the American Speech-Language-Hearing Association requires that students complete at least one course in each of the following subject areas: Biological Sciences (e.g. biology, neuroscience), Physical Sciences (chemistry or physics is strongly recommended), Behavioral Sciences (e.g. psychology, sociology), and (statistics). Completion of this coursework prior to application to graduate school is strongly advised.

Students who wish to combine Speech-Language Pathology and Audiology with Psychology, Neuroscience, or Child Development should be able to meet requirements in both majors, and, with the approval of the Associate Dean, complete a double major. Students considering a double major should consult with their advisor regarding specific requirements. Students can complete Core Curriculum and Speech-Language Pathology and Audiology major requirements in a minimum of 78 semester credit hours, leaving 42 elective semester credit hours.

Faculty List Placeholder
I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Mathematics: 3 semester credit hours
Select 3 semester credit hours from Mathematics core courses (see Advisor for recommended course)

Life and Physical Sciences: 6 semester credit hours
Select 6 semester credit hours from Life and Physical Sciences core courses (Students planning to attend graduate school in speech-language pathology or audiology should take a minimum of one course in the biological sciences and one course in chemistry or physics.)

Language, Philosophy and Culture: 3 semester credit hours
Choose one course from the following:
HUMA 1301 Exploration of the Humanities

IT 2331 Masterpieces of World Literature
PHI 1301 Introduction to Philosophy
PHI 2316 History of Philosophy I
PHI 2317 History of Philosophy II

Creative Arts: 3 semester credit hours
Choose one course from the following:
AHST 1303 Survey of Western Art History: Ancient to Medieval
AHST 1304 Survey of Western Art History: Renaissance to Modern
AHST 2333 Understanding Art
A TS 1301 Exploration of the Arts
DA C 1310 Understanding Dance
D AM 1310 Understanding Theater
FI M 2332 Understanding Film
MUSI 1306 Understanding Music
American History: 6 semester credit hours

Choose two courses from the following:

HIST 1301 U.S. History Survey to Civil War
HIST 1302 U.S. History Survey from Civil War
HIST 2301 History of Texas
HIST 2330 Themes and Ideas in American History
HIST 2332 Civil War and Reconstruction

Government / Political Science: 6 semester credit hours

GOVT 2305 American National Government
GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

PSY 2301 Introduction to Psychology

Component Area Option: 6 semester credit hours

PSY 2317 Statistics for Psychology
or STAT 1342 Statistical Decision Making

PSY 2314 Lifespan Development

II. Major Requirements: 36 semester credit hours

Major Preparatory Courses: 3 semester credit hours (0 semester credit hours beyond Core Curriculum).

PSY 2301 Introduction to Psychology

Major Core Courses: 36 semester credit hours

SPAU 3301 Communication Disorders
SPAU 3303 Normal Language Development
SPAU 3304 Communication Sciences
SPAU 3340 Articulation Disorders
SPAU 3341 Audiology
SPAU 3343 Phonetics
SPAU 3344 Anatomy and Physiology of Speech and Hearing
SPAU 3345 Neurolinguistics of Communication
or SC 3361 Behavioral Neuroscience

SPAU 3388 Clinical Observation in Speech-Language Pathology

SPAU 4308 Language Disorders in Children

SPAU 4394 Multicultural Aspects of Communication Disorders
or SPAU 4393 Language in Culture and Society

SPAU elective (3 semester credit hour course with SPAU prefix)

III. Elective Requirements: 42 semester credit hours

Free Electives: 42 semester credit hours

At least 42 semester credit hours of lower- or upper-division courses of the student's choice. Students are encouraged to explore areas of concentration in Speech-Language Pathology and Audiology as well as explore interests outside the field. At least 51 semester credit hours of upper-division courses are required for graduation.

Fast Track Baccalaureate/Master's Degrees

UT Dallas undergraduate students with strong academic records who intend to pursue a master's degree in Communication Disorders at the university may consider an accelerated undergraduate-graduate plan of study. If accepted into the program, students may take up to 15 semester credit hours of graduate courses that may be used to complete the baccalaureate degree and also to satisfy requirements for the master's degree. Students must maintain a 3.000 grade point average and earn grades of B or better in graduate courses taken.

Students should apply for Fast Track admission in the spring semester before they reach 90 semester credit hours. To be eligible for Fast Track admission, students must have completed at least 18 semester credit hours in major core courses at UT Dallas. To be eligible for Fast Track admission, students must have completed at least 90 semester credit hours toward a baccalaureate degree and meet program admission requirements, including submission of G.E. scores. Apply to the Fast Track program through the Graduate Communication Disorders program, not through Enrollment Services. Students should consult with a graduate advisor regarding admissions criteria and plans of study.

Students must have completed at least 90 semester credit hours toward a baccalaureate degree before beginning Fast Track coursework. Students should apply to admissions one semester before they reach 90 semester credit hours. To qualify for application, undergraduate students must have completed at least 18 semester credit hours in major core courses at UT Dallas. Apply to the Fast Track program through the Cognitive Science Program office.

Students should consult with a graduate advisor regarding admissions criteria and plans of study.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major requirements at UT Dallas.

3. A required Preparatory course that also fulfills a Core Curriculum requirement. Three (3) semester credit hours are counted in Core Curriculum.
School of Behavioral and Brain Sciences

Minors

Students must take a minimum of 18 semester credit hours for the minor, 12 of which must be upper-division semester credit hours. Students who take a minor will be expected to meet the normal prerequisites in courses making up the minor, and should maintain a minimum GPA of 2.000 on a 4.00 scale (C average). Semester credit hours may not be used to satisfy both the major and minor requirements; however, free elective semester credit hours or major preparatory classes may be used to satisfy the minor. The minors in the School of Behavioral and Brain Science are listed below:

- Child Development
- Cognitive Science
- Neuroscience
- Psychology
- Speech Language Pathology and Audiology

Minor in Child Development: 18 semester credit hours

This minor is well suited for students pursuing Elementary Teacher certification and for those generally interested in the psychological development of children. Students must complete 18 semester credit hours including 9 required semester credit hours of foundation coursework and 9 semester credit hours of guided electives. At least 12 semester credit hours must be upper-division courses, of which at least 9 semester credit hours must have been completed at UT Dallas. Students majoring in Psychology or Speech-Language Pathology and Audiology may minor in Child Learning and Development provided that no course is used to satisfy both major and minor requirements.

Foundation Courses: 9 semester credit hours

Choose three courses from the following:

- PSY 3310 Child Development
- or PSY 3339 Educational Psychology
- PSY 3332 Social and Personality Development
- PSY 3362 Cognitive Development

Guided Elective Courses: 9 semester credit hours
Choose three courses from the following:

- PSY 3342 Exceptional Children
- PSY 4344 Child Psychopathology
- PSY 4373 Psychological Assessment
- PSY 4394 Internship in Psychology
  
  or ED 4693 Student Teaching - Elementary (approval of the Teacher Development Center required)

- SPAU 3303 Normal Language Development
- SPAU 3305 Language and Literacy Development
- SPAU 4308 Language Disorders in Children

Other courses as approved by the Associate Dean

Minor in Cognitive Science: 18 semester credit hours

Students who are not majoring in Cognitive Science may minor in Cognitive Science by completing 18 semester credit hours. Students who take a minor will be expected to meet the normal prerequisites in courses making up the minor, and should maintain a minimum GPA of 2.000 on a 4.00 scale (C average). At least 12 of the 18 semester credit hours required by the minor in Cognitive Science must be upper-division courses from either the Psychology/HCI, Neuroscience, or Computational Modeling/AI specialization areas. In addition, 9 of the 18 semester credit hours required for the minor in Cognitive Science must have a Cognitive Science (CGS), Psychology (PSY), or Neuroscience (NSC) prefix and be upper-division courses. No semester credit hours may be used to satisfy both major and minor requirements; however, free elective semester credit hours or major preparatory classes may be used to satisfy the minor. At least one-third of the semester credit hours for a minor must be taken at UT Dallas.

Minor in Neuroscience: 18 semester credit hours

Students who are not majoring in Neuroscience may minor in Neuroscience by taking 18 semester credit hours selected from the lists of major core courses, major related courses, and major preparatory courses. See http://catalog.utdallas.edu/2015/undergraduate/programs/bbs/neuroscience. Students who take a minor will be expected to meet the normal prerequisites in courses making up the minor, and should maintain a minimum GPA of 2.000 on a 4.00 scale (C average). At least 12 semester credit hours must be upper-division Neuroscience core courses. No semester credit hours may be used to satisfy both major and minor requirements; however, free elective semester credit hours or major preparatory courses may be used to satisfy the minor. At least one-third of the semester credit hours for a minor must be taken at UT Dallas. At least 12 semester credit hours must be upper-division Neuroscience core courses.

Neuroscience Major Core Courses: 12 semester credit hours:

- NSC 3361 Behavioral Neuroscience
Minor in Psychology: 18 semester credit hours

Students who are not majoring in Psychology may minor in Psychology by taking 18 semester credit hours of Psychology courses (i.e., those with a PSY prefix, excluding those listed under Independent Study in the Catalog). Students who take a minor will be expected to meet the normal prerequisites in courses making up the minor, and should maintain a minimum GPA of 2.000 on a 4.00 scale (C average). At least 12 semester credit hours must be upper-division courses, of which at least 9 semester credit hours must be Psychology major core courses taken at UT Dallas (see list below). No semester credit hours may be used to satisfy both major and minor requirements; however, free elective semester credit hours or major preparatory classes may be used to satisfy the minor.

**Psychology Major Core courses: 9 semester credit hours:**

- PSY 2314 Lifespan Development
- PSY 3310 Child Development
- PSY 3331 Social Psychology
- PSY 3360 Historical Perspectives on Psychology: Mind and Machines since 1600
- PSY 3361 Cognitive Psychology
- PSY 3392 Research Design and Analysis
- PSY 3393 Experimental Projects in Psychology
- PSY 4343 Abnormal Psychology
- PSY 4359 Cognitive Neuroscience
- NSC 3361 Behavioral Neuroscience
Because Psychology is concerned with a wide range of social behaviors, it provides a strong foundation for all careers that deal with people. Students considering careers in business, education, law, medicine, clinical psychology, and counseling or social work can benefit from minoring (or majoring) in psychology.

Upper-Division Courses: 9 semester credit hours from one of the career tracks

Business Careers
Graduate schools of business look for students with a strong liberal arts background that focuses on both writing and quantitative skills. Suggested courses are the following:

- **PSY 3361** Cognitive Psychology
- **PSY 4331** Personality
- **PSY 3331** Social Psychology
- **PSY 4332** Psychology in the Workplace
- **PSY 4370** Industrial and Organizational Psychology
- **PSY 4333** Human Relations
- **PSY 3392** Research Design and Analysis

Education Careers
Psychology courses are especially relevant for students pursuing careers in child development, educational psychology, education counseling, and school psychology. Suggested courses are the following:

- **PSY 2314** Lifespan Development
- **PSY 3310** Child Development
- **PSY 3361** Cognitive Psychology
- **PSY 3339** Educational Psychology
- **PSY 3362** Cognitive Development
- **PSY 3342** Exceptional Children
- **PSY 3332** Social and Personality Development
- **PSY 3338** Adolescence
- **PSY 4373** Psychological Assessment
- **PSY 2317** Statistics for Psychology
- **PSY 3392** Research Design and Analysis

Law and Crime and Justice Careers
A background in psychology can be enormously useful for the study and practice of law and law enforcement. Suggested courses are the following:

- **PSY 4372** Forensic Psychology
Psychology is highly recommended as a major or minor for pre-medical students interested in psychiatry or neurology, or any student who wishes to practice medicine. The intended area of medical specialization should influence choice of courses; for example, a future pediatrician would benefit from courses in developmental psychology. In general, suggested courses are the following:

**Medical Careers**

All courses in psychology are good preparation for these careers. It is especially important that students take the following courses:

**Careers in Clinical Psychology, Counseling, or Social Work**
Other courses of interest include

- PSY 3333 Approaches to Clinical Psychology
- PSY 3350 Psychology of Communication
- PSY 4333 Human Relations
- PSY 4328 Health Psychology
- PSY 4373 Psychological Assessment
- PSY 4344 Child Psychopathology
- PSY 4345 Violence in the Family

**Minor in Speech Language Pathology and Audiology: 18 semester credit hours**

Students interested in communication sciences and disorders may elect to minor in Speech-Language Pathology and Audiology. Students complete 18 semester credit hours including 12 required semester credit hours of foundation coursework and 6 elective semester credit hours. Students who take a minor will be expected to meet the normal prerequisites in courses making up the minor, and should maintain a minimum GPA of 2.000 on a 4.00 scale (C average). No semester credit hours may be used to satisfy both major and minor requirements; however, free elective semester credit hours or major preparatory classes may be used to satisfy the minor. At least one-third of the semester credit hours for a minor must be taken at UT Dallas.

Foundation coursework in conjunction with elective semester credit hours permits students to choose to emphasize hearing science/audiology, language development and disorders, or speech production and perception.

Students majoring in Psychology, Neuroscience, or Cognitive Science, or students with interests in the health sciences may find that a minor in Speech-Language Pathology and Audiology adds a valuable interdisciplinary dimension to their overall plan of study and may enhance their opportunities for graduate study. Students interested in communication sciences and disorders may elect to minor in Speech-Language Pathology and Audiology.

**Foundation Courses: 12 semester credit hours required**

- SPAU 3301 Communication Disorders
- SPAU 3303 Normal Language Development
- SPAU 3304 Communication Sciences
- SPAU 3343 Phonetics

**Elective Courses: 6 semester credit hours**

Choose two courses from the following:

- SPAU 3340 Articulation Disorders
- SPAU 3341 Audiology
- SPAU 3344 Anatomy and Physiology of Speech and Hearing
SPAU 3388 Clinical Observation in Speech-Language Pathology
SPAU 4308 Language Disorders in Children
SPAU 4393 Language in Culture and Society
SPAU 4395 Issues in the Management of Persons with Hearing-Impairment

1. Required for EC-6 Teacher Certification.
School of Economic, Political and Policy Sciences

As a collective of several disciplines, social science is the study of institutions, organizations and behavior. Social scientists ask such questions as: What roles do government, law and politics play in our society? How can public and nonprofit organizations be effectively managed? How are groups formed? How do people produce and distribute goods? Why do cities grow, and why do some cities decay? What are the causes of war, racial discrimination, and revolutions? How can we improve organizational capability in leadership and ethical decision making? Social science uses rigorous methodologies to apply ideas and theories to the real world. Degrees in the social sciences provide students with the tools of critical thinking that allow them to work and succeed in business, government, and not-for-profit organizations.

The School of Economic, Politics and Policy Sciences offers undergraduate degrees in Criminology, Economics, Geospatial Information Sciences, International Political Economy, Political Science, Public Affairs, and Sociology. Each degree offers a large number of elective semester credit hours that allow students to direct their educational focus. Careers building on social science degrees include law, public service, nonprofit management, finance, banking, criminal justice, human resource management, teaching, market research and analysis, urban planning, and counseling to name a few.

Faculty


Professor Emeritus: Ronald Briggs, Royce Hanson

Clinical Professors: Donald R. Arbuckle, Linda Camp Keith, John R. McCaskill, Elmer Polk

Associate Professors: Bobby C. Alexander, R. Paul Battaglio Jr., Denise Paquette Boots, Patrick T. Brandt, Simon M. Fass, Doug Goodman, Dohyeong Kim, Tomislav Kovandzic, Xin (Sherry) Li, Sarah Maxwell, Susan Williams McElroy, Robert G. Morris, Clint W. Peinhardt, Kevin Siqueira, Sheryl L. Skaggs, Michael Tiefelsdorf, Lynne M. Vieraitis

Clinical Associate Professors: Brian Beary, Douglas Dow, Karl K. Ho

Assistant Professors: Rodney Andrews, Jonas Bunte, Yongwan Chun, Nadine Connell, Anthony R. Cummings, Monica Deza, Evgenia Gorina, James R. Harrington, Asli Leblebicioglu, Young-jeo Lee, Banks P. Miller, Meghna Sabharwal, Nicholas Vargas

Clinical Assistant Professors: Timothy M. Bray, Rodolfo Hernandez-Guerrero

Senior Lecturers: Teodoro Benavides, Bryan Chastain, Galia Cohen, Luba Ketsler, Carol Cirulli Lanham, Irina Vakulenko
Programs and General Courses

The School of Economic, Political and Policy Sciences has seven degree granting programs: Criminology, Economics, Geospatial Information Sciences, International Political Economy, Political Science, Public Affairs, and Sociology. Within each of these programs, students may specialize in areas that complement their interests and career plans, such as, political economy, law and society, and comparative studies. Students should also note that many courses listed under Interdisciplinary Studies (ISSS) and Social Sciences (SOCS) apply within their major.

Minor Areas of Study

The School of Economic, Political and Policy Sciences offers minors in Criminology, Economics, Geography, Geospatial Information Sciences, International Political Economy, Political Science, Public Affairs, Public Health, and Sociology. Students must take a minimum of 18 semester credit hours for the minor, 12 of which must be upper-division semester credit hours. Students who take a minor will be expected to meet the normal prerequisites in courses making up the minor, and should maintain a minimum GPA of 2.000 on a 4.00 scale (C average). The School of Economic, Political and Policy Sciences requires that a minimum of 12 of the 18 semester credit hours for a minor be taken at UT Dallas.

Students may choose to minor in any of the following fields of study:

- Criminology
- Economics
- Geography
- Geospatial Information Sciences
- International Political Economy
- Political Science
- Public Affairs
- Public Health
- Sociology

See catalog.utdallas.edu/2015/undergraduate/programs/epps/minors.

Social Studies Teacher Certification

Teacher certification is offered in Composite Social Studies, Economics, Geography, Government, and History. Specific course requirements are available in the Teacher Development Center.
Economic, Political and Policy Sciences Core Requirements

All undergraduates receiving degrees in the School of Economic, Political and Policy Sciences must have taken and passed a core of courses designed to provide breadth and an interdisciplinary perspective beyond any individual social science discipline. These courses include:

- Three semester credit hours in economics (normally ECON 2301 or ECON 2302)
- Three semester credit hours in sociology (normally SOC 1301)
- Three semester credit hours in statistics (normally EPPS 2302 or EPPS 2303)
- Three semester credit hours in research design (normally EPPS 2301)
- Three semester credit hours in an approved course satisfying the writing requirement (normally COMM 1311)

Internship and Independent Study Policy

The total number of independent study and internship semester credit hours are limited to nine total semester credit hours with the exception of extenuating circumstances to be approved by the Associate Dean for Undergraduate Education.

Fast Track Baccalaureate/Master's Degrees

Undergraduate EPPS majors with strong academic records who are interested in pursuing a Master’s degree may apply for a Fast Track plan of study that involves taking graduate courses in lieu of several advanced undergraduate courses. Acceptance into the Fast Track program is based on the student's attaining a GPA (grade point average) of at least 3.500 overall and in their major. Eligible students may take up to 15 semester credit hours of selected graduate courses that may be used to complete the baccalaureate degree and also satisfy requirements for the master’s degree. All Fast track students are expected to maintain at least a 3.0 GPA and earn a B or better in graduate classes. Interested students should contact their academic advisor during their junior year to apply to the Fast Track program.

Economic, Political and Policy Sciences Honors Program

The School Honors Program in the School of EPPS provides eligible students with the opportunity for recognition at the Program level for scholarly performance in degree programs within the School. In order to earn EPPS honors, a student must:

- graduate with an overall GPA of 3.400 or higher
- graduate with a GPA of 3.400 or higher in their major program of study
- complete any two of the following requirements:

  1. Complete 9 semester credit hours of honors designated courses as determined by the program, with no less than a "B" in each course. Honors designated courses are often graduate courses taken in one of the School's fast track programs. Exceptions may be made by the Associate Dean upon recommendation of the
Program Head.

2. Complete an internship by completing three semester credit hours of internship. The internship must be approved by the Program Head, and have a significant research component.

3. Register for Senior Honors semester credit hours with a faculty supervisor or mentor and complete an Honors paper.

The Honors paper must be submitted to your faculty mentor or supervisor at least three weeks prior to the last day of classes for the term. It is then critiqued by your mentor and returned to the student for revisions and resubmitted by the last day of classes of the term. At that point, a second reader is asked to evaluate the paper.

School Honors with Distinction will be awarded to those students who complete a Senior Honors thesis, and whose paper is judged by a faculty committee to be of exemplary quality and provided the students meet the other requirements stated above.

Students must apply for admission to the Program Head of the academic program in which they expect to receive their degree. Students must apply no later than 30 semester credit hours prior to graduation and no earlier than 60 semester credit hours prior to graduation.

Students should contact an academic advisor for an application.
School of Economic, Political and Policy Sciences

Criminology (BA)

The Criminology Program is an interdisciplinary academic program, based primarily in criminology and sociology that studies the interrelationships among law, policy, and societal conditions. The relationships among these factors are dynamic and complex, therefore Criminology integrates a variety of perspectives, approaches, and social science disciplines in order to analyze and understand the origins of crime and injustice and society's response to these issues.

Mission Statement

The mission of the Criminology Program is to examine the causes and consequences of crime and crime control politics by providing a program of study involving a variety of perspectives, approaches, and social science disciplines to undergraduate students. Our faculty members are dedicated teachers and scholars who have published their work in the most prestigious journals in the field. They are committed to expanding the knowledge of the discipline and preparing students to be leaders in influencing our society's response to crime.

Majors in the Criminology Program at UT Dallas will be provided an educational experience, which will allow them to put their academic training, background and experience to use in a wide variety of post-graduate educational and occupational positions, including:

- Employment in Criminal Justice agencies at the federal, state, and local government level;
- Graduate School in Criminology or Criminal Justice (or a related social science discipline);
- Law School; or
- Social Work, Counseling, or other Human Service program.

Bachelor of Arts in Criminology

Degree Requirements (120 semester credit hours)¹

I. Core Curriculum Requirements: 42 semester credit hours²

<table>
<thead>
<tr>
<th>Communication: 6 semester credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COMM 1311</strong> Survey of Oral and Technology-based Communication</td>
</tr>
<tr>
<td><strong>RHET 1302</strong> Rhetoric</td>
</tr>
</tbody>
</table>
Mathematics: 3 semester credit hours

Choose one course from the following:

- MATH 1306 College Algebra for the Non-Scientist
- MATH 1314 College Algebra

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses (see advisor)

Language, Philosophy and Culture: 3 semester credit hours

Choose one course from the following:

- HUMA 1301 Exploration of the Humanities
- LIT 2331 Masterpieces of World Literature
- PHIL 1301 Introduction to Philosophy
- PHIL 2316 History of Philosophy I
- PHIL 2317 History of Philosophy II

Creative Arts: 3 semester credit hours

- ARTS 1301 Explorations of the Arts

American History: 6 semester credit hours

- HIST 1301 U.S. History Survey to Civil War
- HIST 1302 U.S. Survey from Civil War

Government / Political Science: 6 semester credit hours

- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

Choose one course from the following:

- CRIM 1301 Introduction to Criminal Justice
- CRIM 1307 Introduction to Crime and Criminology
- ECON 2301 Principles of Macroeconomics
- ECON 2302 Principles of Microeconomics
- SOC 1301 Introduction to Sociology

Component Area Option: 6 semester credit hours

- EPPS 2301 Research Design in the Social and Policy Sciences

And choose one course from the following:
II. Major Requirements: 60 semester credit hours

Major Preparatory Courses: 15 semester credit hours beyond Core Curriculum

CRIM 1301 Introduction to Criminal Justice
CRIM 1307 Introduction to Crime and Criminology
CRIM 2306 Criminal Law
CRIM 2313 Police and Society
CRIM 2316 Corrections
CRIM 2317 Criminal Prosecution and Court Process
EPPS 2301 Research Design in the Social and Policy Sciences
EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Sciences
Or EPPS 2303 Descriptive and Inferential Statistics for the Social and Policy Sciences

Major Core Courses: 24 semester credit hours

CRIM 3300 Crime and Civil Liberties
CRIM 3302 Advanced Criminology
CRIM 3303 Advanced Criminal Justice
CRIM 3310 Youth Crime and Justice
CRIM 4311 Crime and Justice Policy
CRIM 4322 Senior Research Seminar

And Distributive Justice Focus

Choose one course from the following (3 semester credit hours):
CRIM 3301 Theories of Justice
ECON 4330 Law and Economics
SOC 4302 Class, Status and Power

And International or Comparative Focus

Choose one course from the following (3 semester credit hours):
CRIM 3319 Comparative Justice Systems
ECON 4360 International Trade
PSCI 3350 Comparative Politics
SOC 3336 Culture Regions

Comment [EM1]: I count 60 SCH in this section – 15 + 24 + 21. Not sure why it has been changed to 63 SCH. If you decide to change this to 63 as shown here, then the total SCH will be 123 SCH (42 + 63 + 18 = 123). If you leave it as 60, then it is 120 (42 + 60 + 18). Please double check.

Comment [TV2]: Listed these to show students that they should take one of classes to fulfill the Social and Behavioral core requirement hours instead of taking another course that is also designated as fulfilling the requirement. One course would count as core hours while one course will count as major prep hours.

Comment [TV3]: Listed these to show students that they should take these classes to fulfill the CAO core requirement hours instead of taking another course that is also designated as fulfilling the CAO requirement. These hours will count as core hours and does not affect the overall numbers for the prep courses.
Major Related Upper-Division Elective Courses: **21** semester credit hours

21 semester credit hours of CRIM upper-division courses or related to CRIM

III. Elective Requirements: **18** semester credit hours

This requirement may be satisfied with lower-and upper-division courses from any field of study. Students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. To be taken upon completion of Criminology major core courses.

4. Preferred courses for Criminology Majors

5. A Major requirement that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

Updated: September 4, 2014 - Visitor: 580
School of Economic, Political and Policy Sciences

Faculty List Placeholder

Bachelor of Arts in Criminology and Biology (Double Major)

Degree Requirements (134–139 semester credit hours)¹

I. Core Curriculum Requirements: 42 semester credit hours²

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

Choose one course from the following:

MATH 1325 Applied Calculus I³
MATH 2413 Differential Calculus³, ⁴, ⁵

Life and Physical Sciences: 6 semester credit hours

CHEM 1311 General Chemistry I³
CHEM 1312 General Chemistry II³

Language, Philosophy and Culture: 3 semester credit hours

Select any 3 semester credit hours from Language, Philosophy, and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours

HIST 1301 U.S. History Survey to Civil War
HIST 1302 U.S. History Survey from Civil War

¹ Comment [MV1]: Increase to 131-136 if major requirements section are revised.
² Comment [TV2]: If add the revised CRIM core then 134-139.
³ Deleted: 1
⁴ Deleted: O
⁵ Deleted: of
Or select any 6 semester credit hours from American history core courses (see advisor)

**Government / Political Science: 6 semester credit hours**

- **GOVT 2305** American National Government
- **GOVT 2306** State and Local Government

**Social and Behavioral Sciences: 3 semester credit hours**

Choose one course from the following:

- **CRIM 1301** Introduction to Criminal Justice
- **CRIM 1307** Introduction to Crime and Criminology
- **ECON 2301** Principles of Macroeconomics
- **SOC 1301** Introduction to Sociology

Or select any 2 semester credit hours from Social and Behavioral Sciences core courses (see advisor)

**Component Area Option: 6 semester credit hours**

- **MATH 2414** Integral Calculus
- or **STAT 2332** Introductory Statistics for Life Sciences
- or **EPPS 2302** Methods of Quantitative Analysis in the Social and Policy Sciences
- **ECON 2302** Principles of Microeconomics

**II. Major Requirements: 77-82 semester credit hours**

**Criminology Major Preparatory Courses: 3-6 semester credit hours beyond Core Curriculum**

- **CRIM 1301** Introduction to Criminal Justice
- **CRIM 1307** Introduction to Crime and Criminology
- **ECON 2301** Principles of Macroeconomics
- or **ECON 2302** Principles of Microeconomics

**Criminology Core Courses: 24 semester credit hours**

- **CRIM 3300** Crime and Civil Liberties
- **CRIM 3302** Advanced Criminology
- **CRIM 3303** Advanced Criminal Justice
- **CRIM 3310** Youth Crime and Justice
- **CRIM 4311** Crime and Justice Policy
- **CRIM 4322** Senior Research Seminar

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**Comment [DDC3]:** Title change for 2015 catalog

**Deleted:** One of

**Comment [MV4]:** See Criminology Major Preparatory Courses section. Increase to 74-79?

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**Comment [MV5]:** After rechecking, it is our recommendation that it be listed as 3-6 SCH beyond Core Curriculum. Students may take ONE core course (CRIM 1301 or CRIM 1307 or ECON 2301 or SOC 1301) from the Social and Behavioral Sciences core. If the student takes CRIM 1301, then he/she still needs to take CRIM 1307 for 3 SCH beyond Core Curriculum. Suppose the student takes SOC 1301? Then that student will need to take 6 SCH beyond core (again, CRIM 1301 or CRIM 1307 or ECON 2301.) ECON 2302 will be counted in the CAO.

**Deleted:** No

**Comment [MV6]:** Question for EPPS - should this section match the Criminology BA core? If so, then there are discrepancies between the two. Please review.

**Deleted:** 21

**Deleted:** CRIM 3301 Theories of Justice

**Deleted:** CRIM 3319 Comparative Justice Systems

**Comment [TV7]:** Changed to match BA CRIM.

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And Distributive Justice Focus
Choose one course from the following (3 semester credit hours):

- CRIM 3301 Theories of Justice
- ECON 4330 Law and Economics
- SOC 4302 Class, Status and Power

And International or Comparative Focus
Choose one course from the following (3 semester credit hours):

- CRIM 3319 Comparative Justice Systems
- ECON 4360 International Trade
- PSCI 3350 Comparative Politics
- SOC 3336 Culture Regions

Biology Major Preparatory Courses: 18-20 semester credit hours beyond Core Curriculum

- CHEM 1111 General Chemistry Laboratory I
- CHEM 1112 General Chemistry Laboratory II
- CHEM 1311 General Chemistry I
- CHEM 1312 General Chemistry II
- CHEM 2123 Introductory Organic Chemistry Laboratory I
- CHEM 2125 Introductory Organic Chemistry Laboratory II
- CHEM 2323 Introductory Organic Chemistry I
- CHEM 2325 Introductory Organic Chemistry II
- MATH 2413 Differential Calculus and MATH 2414 Integral Calculus
  or MATH 1325 Applied Calculus I and either STAT 2332 Introductory Statistics for Life Sciences or EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Sciences
- PHYS 2325 Mechanics and PHYS 2125 Physics Laboratory I
  or PHYS 1301 College Physics I and PHYS 2125 Physics Laboratory II
- PHYS 2326 Electromagnetism and Waves and PHYS 2126 Physics Laboratory II
  or PHYS 1302 College Physics II and PHYS 2126 Physics Laboratory II
- EPPS 1110 Freshman Seminar or NATS 1101 Natural Sciences and Mathematics Freshman Seminar
- UNIV 1010 Freshman Seminar

Biology Major Core Courses: 32 semester credit hours

- BIOL 2111 Introduction to Modern Biology Workshop I
- BIOL 2112 Introduction to Modern Biology Workshop II
- BIOL 2281 Introductory Biology Laboratory
III. Elective Requirements: 15 semester credit hours

Guided Electives: 15 semester credit hours

Biology (6 semester credit hours):

BIOL 4380 Cell and Molecular Biology Laboratory

Criminology Related Electives: 9 semester credit hours

All students must complete at least 51 semester credit hours of upper-division courses to graduate.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

4. Six semester credit hours of Calculus are counted under Mathematics Core and Component Area Option Core, and 2 semester credit hours of Calculus are counted as Major Preparatory Courses.

5. Students may substitute MATH 2413 and MATH 2414 by taking MATH 2417 and MATH 2419.

6. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

7. To be taken upon completion of Criminology major core courses.

8. The double major of Criminology and Biology’s total degree semester credit hours will be 135-140 if incoming freshmen take EPPS 1110 or NATS 1101.
School of Economic, Political and Policy Sciences

Economics (BA, BS)

Economists study how people make choices in life when scarcity limits what is available and provides incentives to induce efficient behavior. They look at a society's financial, industrial, and labor organizations; its distribution of income and ownership rights; its governmental activities; and its political and economic philosophies, and analyze how these and other factors influence the goods an economy produces, the resources it uses in production, and the distribution of its output. They also look at how incentives affect decisions relating to human behavior, such as whether to obey the law, get married, or have children.

Economic analysis leads to explanations, predictions, and policy suggestions. How are wages and prices set? Why do some cities boom while others decline? Why do we have an energy crisis? How should we use our exhaustible resources? How will consumers and corporations react to a tax cut? How can the crime rate be reduced? If we are to use our resources efficiently, what antitrust and government regulations should be enforced? What can be done to reduce inflation and unemployment? To prevent excess pollution? To achieve economic growth? To distribute income more equitably? In examining these sorts of questions, economics helps us to understand more clearly the choices available to us and the consequences of our decisions.

There is an abundance of career opportunities for an economics major.

Careers in business include consulting, banking and other financial institutions, insurance, corporate strategic planning, real estate, journalism, management, marketing, and public utilities.

Careers in government include consulting, publicly owned utilities, planning and forecasting, regulatory agencies, management, needs assessment, legislative staffs, judicial agencies, and executive support.

Careers in the interfacing of business and government include labor arbitration, regulation, environmental planning, urban and regional planning, and interest representation.

Economics is an excellent preparation for a career in law.

Faculty List Placeholder

Bachelor of Arts in Economics

Degree Requirements (120 semester credit hours)¹

I. Core Curriculum Requirements: 42 semester credit hours²

Communication: 6 semester credit hours
**COMM 1311** Survey of Oral and Technology-based Communication

**RHET 1302** Rhetoric

**Mathematics: 3 semester credit hours**

Choose one course from the following:

- MATH 1325 Applied Calculus
- MATH 2413 Differential Calculus
- MATH 2417 Calculus

**Life and Physical Sciences: 6 semester credit hours**

Select any 6 semester credit hours from Life and Physical Sciences core courses (see advisor)

**Language, Philosophy and Culture: 3 semester credit hours**

Choose one course from the following:

- HUMA 1301 Exploration of the Humanities
- LIT 2331 Masterpieces of World Literature
- PHIL 1301 Introduction to Philosophy
- PHIL 2316 History of Philosophy I
- PHIL 2317 History of Philosophy II

**Creative Arts: 3 semester credit hours**

- ARTS 1301 Exploration of the Arts

**American History: 6 semester credit hours**

- HIST 1301 U.S. History Survey to Civil War
- HIST 1302 U.S. Survey from Civil War

**Government / Political Science: 6 semester credit hours**

- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

**Social and Behavioral Sciences: 3 semester credit hours**

Choose one course from the following:

- CRIM 1301 Introduction to Criminal Justice
- CRIM 1307 Introduction to Crime and Criminology
- ECON 2301 Principles of Macroeconomics

**Comment [EM1]: Added appropriate footnotes.**
I. Component Area Option: 6 semester credit hours

And choose one course from the following:

- EPPS 2301 Research Design in the Social and Policy Sciences
- EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Sciences
- EPPS 2303 Descriptive and Inferential Statistics for the Social and Policy Sciences
- STAT 1342 Statistical Decision Making

II. Major Requirements: 42-46 semester credit hours

Major Preparatory Courses: 3-7 semester credit hours beyond Core Curriculum

- ECON 2301 Principles of Macroeconomics
- ECON 2302 Principles of Microeconomics
- EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Sciences
- or EPPS 2303 Descriptive and Inferential Statistics for the Social and Policy Sciences
- or OPRE 3360 Managerial Methods in Decision Making Under Uncertainty
- or STAT 3360 Probability and Statistics for Management and Economics
- or STAT 1342 Statistical Decision Making

- MATH 2417 Calculus
- or MATH 1325 Applied Calculus
- or MATH 2413 Differential Calculus

Major Core Courses: 9 semester credit hours

- ECON 3310 Intermediate Microeconomic Theory
- ECON 3311 Intermediate Macroeconomic Theory
- ECON 4320 Public Sector Economics

Major Related Courses: 30 semester credit hours

- 30 semester credit hours of upper-division ECON courses

Optional Major Core Concentrations: 9 semester credit hours

Green Economics

Choose one course from the following:

- ECON 4333 Environmental Economics
- ECON 4336 Environmental Economic Theory and Policy
Choose two additional courses from:

- ECON 4320 Public Sector Economics
- ECON 4332 Energy and Natural Resource Economics
- ECON 4333 Environmental Economics
- ECON 4336 Environmental Economic Theory and Policy

International Economics

- ECON 4360 International Trade

Choose two courses from the following:

- ECON 3369 Political Economy of Terrorism
- ECON 4362 Development Economics
- ECON 4382 International Finance
- GEOG 3370 The Global Economy
- GEOG 3372 Population and Development

Business Economics

Choose three courses from the following:

- ECON 3312 Money and Banking
- ECON 4301 Game Theory
- ECON 4310 Managerial Economics
- ECON 4340 Labor Economics and Human Resources
- ECON 4345 Industrial Organization
- ECON 4355 Econometrics
- ECON 4385 Business and Economic Forecasting

III. Elective Requirements: 32-36 semester credit hours

This requirement may be satisfied with lower- and upper-division courses from any field of study. Students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

Note: Students wishing to pursue Master's or PhD degrees in economics should consult their advisor about appropriate mathematics and quantitative methods courses.

Bachelor of Science in Economics

Degree Requirements (120 semester credit hours)
I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

Choose one course from the following:

MATH 1325 Applied Calculus I\(^2\)
MATH 2413 Differential Calculus
MATH 2417 Calculus I\(^3,5\)

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses (see advisor)

Language, Philosophy and Culture: 3 semester credit hours

Choose one from the following:

HUMA 1301 Exploration of the Humanities
LIT 2331 Masterpieces of World Literature
PHIL 1301 Introduction to Philosophy
PHIL 2316 History of Philosophy I
PHIL 2317 History of Philosophy II

Creative Arts: 3 semester credit hours

ARTS 1301 Exploration of the Arts

American History: 6 semester credit hours

HIST 1301 U.S. History Survey to Civil War
HIST 1302 U.S. Survey from Civil War

Government / Political Science: 6 semester credit hours

GOVT 2305 American National Government
GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

Choose one course from the following:

CRIM 1301 Introduction to Criminal Justice
CRIM 1307 Introduction to Crime and Criminology
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
SOC 1301 Introduction to Sociology

Component Area Option: 6 semester credit hours

EPPS 2301 Research Design in the Social and Policy Sciences
And choose one course from the following:

EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Sciences
EPPS 2303 Descriptive and Inferential Statistics for the Social and Policy Sciences
STAT 1342 Statistical Decision Making

II. Major Requirements: 51-56 semester credit hours

Major Preparatory Courses: 6-11 semester credit hours beyond Core Curriculum

ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Sciences
or EPPS 2303 Descriptive and Inferential Statistics for the Social and Policy Sciences
or OPRE 3360 Managerial Methods in Decision Making Under Uncertainty
or STAT 3360 Probability and Statistics for Management and Economics
or STAT 1342 Statistical Decision Making

MATH 2417 Calculus
or MATH 1325 Applied Calculus
or MATH 2413 Differential Calculus
or MATH 2419 Calculus
or MATH 1326 Applied Calculus II
or MATH 2414 Integral Calculus

Major Core Courses: 15 semester credit hours

ECON 3310 Intermediate Microeconomic Theory
ECON 3311 Intermediate Macroeconomic Theory
ECON 4320 Public Sector Economics
ECON 4351 Mathematical Economics
ECON 4355 Econometrics

MATH 2419 Calculus
or MATH 1326 Applied Calculus II
or MATH 2414 Integral Calculus

Comment [EM10]: I’m counting this to be 51-53 based on [6+15+30] to [8+15+30]
Comment [DGAM11]: MATH 2419 is not listed in the core. The other 6 hours can go to general electives.
Comment [EM12]: I’m counting 6-8 based on [3+0+3] or [3+1+4].
Comment [EM13]: Should MATH 2413 be included in this section? Yes.
Comment [EM14]: Should these footnotes be removed as MATH 2419 is not listed in the Core area? CORRECT: Removed them.
Major Related Courses: 30 semester credit hours

- 30 semester credit hours of upper-division ECON courses

Optional Major Core Concentrations: 9 semester credit hours

Green Economics

Choose one course from the following:

- ECON 4333 Environmental Economics
- ECON 4336 Environmental Economic Theory and Policy

Choose two additional courses from:

- ECON 4320 Public Sector Economics
- ECON 4332 Energy and Natural Resource Economics
- ECON 4333 Environmental Economics
- ECON 4336 Environmental Economic Theory and Policy

International Economics

- ECON 4360 International Trade

Choose two courses from the following:

- ECON 3369 Political Economy of Terrorism
- ECON 4362 Development Economics
- ECON 4382 International Finance
- GEOG 3370 The Global Economy
- GEOG 3372 Population and Development

Business Economics

Choose three courses from the following:

- ECON 3312 Money and Banking
- ECON 4301 Game Theory
- ECON 4310 Managerial Economics
- ECON 4340 Labor Economics and Human Resources
- ECON 4345 Industrial Organization
- ECON 4355 Econometrics
- ECON 4385 Business and Economic Forecasting

Deleted: And one of the following:

- ECON 3330 Economics of Health
- ECON 4332 Energy and Natural Resource Economics
- ECON 4382 International Finance

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Comment [EM15]: Should an additional footnote be added to note that Students may select one or more optional major concentrations? MJV – Yes. In both Major Related Courses and Optional Major core as #8. See footnote #8 - please review and edit as needed.

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III. Elective Requirements: **22-27** semester credit hours

This requirement may be satisfied with lower- and upper-division courses from any field of study. Students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

Note: Students wishing to pursue Master's or PhD degrees in economics should consult their advisor about appropriate mathematics and quantitative methods courses.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. A Major requirement that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

4. Indicates a prerequisite class to be completed before enrolling for upper-division classes in Economics and Finance.

5. Three semester credit hours are counted under Mathematics core, and one semester credit hour is counted under Major Preparatory Courses.

6. Semester credit hours to be counted as part of major-related courses.

7. Preferred courses for Economics Majors.

8. If students choose to select an optional major concentration for 9 semester credit hours, then they only need to take 21 semester credit hours in major related courses.

9. Preferred courses for School of Management majors.
School of Economic, Political and Policy Sciences

Bachelor of Science in Economics and Finance (Double Major)

Degree Requirements (127 semester credit hours)\(^1,2\)

I. Core Curriculum Requirements: 42 semester credit hours\(^3\)

- Communication: 6 semester credit hours
  - COMM 1311 Survey of Oral and Technology-based Communication
  - RHET 1302 Rhetoric

- Mathematics: 3 semester credit hours
  - MATH 1325 Applied Calculus I\(^4,5,6\)

- Life and Physical Sciences: 6 semester credit hours
  - Select any 6 semester credit hours from Life and Physical Sciences core courses (see advisor and degree requirements)

- Language, Philosophy and Culture: 3 semester credit hours
  - Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

- Creative Arts: 3 semester credit hours
  - Select any 3 semester credit hours from Creative Arts core courses (see advisor)

- American History: 6 semester credit hours
  - Select any 6 semester credit hours from American History core courses (see advisor)

- Government / Political Science: 6 semester credit hours
  - GOVT 2305 American National Government
  - GOVT 2306 State and Local Government
Social and Behavioral Sciences: 3 semester credit hours

ECON 2301 Principles of Macroeconomics

Component Area Option: 6 semester credit hours

MATH 1326 Applied Calculus II
ECON 2302 Principles of Microeconomics

II. Major Requirements: 67 semester credit hours

Major Preparatory Courses: 15 semester credit hours beyond Core Curriculum

ACCT 2301 Introductory Financial Accounting
ACCT 2302 Introductory Management Accounting
BLAW 2301 Business and Public Law
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
MATH 1325 Applied Calculus
MATH 1326 Applied Calculus
MATH 2333 Matrices, Vectors and Their Application
or OPRE 3333 Quantitative Business Analysis
OPRE 3360 Managerial Methods in Decision Making Under Uncertainty
or STAT 3360 Probability and Statistics for Management and Economics

Major Core Courses: 52 semester credit hours

FIN 3100 Professional Development
BCOM 3310 Business Communication
BCOM 4350 Advanced Business Communication
FIN 3320 Business Finance
FIN 3330 Personal Financial Planning
JTSS 3300 Information Technology for Business
OPRE 3310 Operations Management
OBHR 3310 Organizational Behavior
MKT 3300 Principles of Marketing
FIN 3390 Introduction to Financial Modeling
BPS 4305 Strategic Management
FIN 4310 Intermediate Business Finance
IMS 3310 International Business
III. Elective Requirements: 18 semester credit hours

Guided Electives

Select 9 semester credit hours from: FIN 3305, FIN 3340, FIN 3365, FIN 3380, FIN 4313, FIN 4315, FIN 4320, FIN 4321, FIN 4340, FIN 4345, FIN 4380, FIN 4390, or FIN 4V90.

Select 9 semester credit hours from: ECON 3312, ECON 3335, ECON 4301, ECON 4310, ECON 4320, ECON 4345, ECON 4360, ECON 4382, ECON 4385, ECON 4396, or ECON 4V99.

Each student is expected to complete a minimum of 160 hours of business-related work to fulfill the JSOM professional practicum requirement.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.
2. Degree is 128 semester credit hours if student is required to take BA 1110 or EPPS 1110.
3. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.
4. Indicates a prerequisite class to be completed before enrolling for upper-division classes in Economics and Finance.
5. A Major requirement that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.
6. Students may substitute MATH 2313 and MATH 2414 or MATH 2417 and MATH 2419.
7. Students may substitute MATH 2418, OPRE 3333 or CS 2305.
School of Economic, Political and Policy Sciences

Geospatial Information Sciences (BS)

Geospatial Information Science (or GIScience) is the study of relationships between phenomena in space and time. In recent years, powerful new technologies and techniques have emerged that greatly improve our ability to acquire, archive, analyze, and communicate information regarding people, places, and other things on or near the Earth's surface. These same technologies and techniques allow us to combine this information into multi-tiered databases describing the physical, social, and other aspects of all or portions of the Earth. Such databases can then be analyzed in novel ways that take the data's explicit spatial (or locational) nature into account. The insights produced by analyzing these types of databases are revolutionizing many fields of science, government, and business. Currently, commonplace consumer products such as web-based mapping systems and GPS units that incorporate locational information are directly impacting the everyday lives of ordinary individuals.

Graduates of the Bachelor of Science in Geospatial Information Science program will understand the logical, mathematical, and technological foundations for compiling and analyzing spatial data. They will be skilled in solving geospatial problems, enabling them to move into professional roles handling the geospatial needs of typical corporate, government, and nonprofit organizations. The graduates will not only be skilled in the use of common GIScience software systems, but also will understand the underlying principles upon which software systems are based. This will allow them to transfer their knowledge from one software system to another, to expand the capabilities of these systems, and most importantly, to view geospatial problems as issues that can be solved by applying basic theories, techniques and methodologies.

Mission and Objectives

The mission of the Bachelor of Science in Geospatial Information Sciences program is to provide students with a rigorous understanding of the fundamental theories and concepts underlying GIScience, as well as to provide them with extensive hands-on experience with contemporary GIScience hardware and software. The goal of the program is to give students a firm grasp of the theories, ideas, and techniques that underlie software and hardware systems for the compilation and analysis of spatially referenced data, and thus provide them with a foundation of knowledge and skill that transcends any individual piece of software or hardware. Graduates of this program will be able to successfully compete for professional positions within GIScience and related fields, and be admitted into the best graduate schools globally.

Students within the program will:

- Demonstrate their understanding of the underlying theories, ideas, concepts and techniques of GIScience.
- Master contemporary computer hardware and software systems commonly employed in GIScience.
- Demonstrate problem solving skills that employ their understanding of theories, ideas and concepts as well as their mastery of GIScience software and hardware.
Bachelor of Science in Geospatial Information Sciences

Degree Requirements (120 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

MATH 1325 Applied Calculus I

Life and Physical Sciences: 6 semester credit hours

Choose two courses from the following:

GEOS 1303 Physical Geology
ENVR 2302 or GEOG 2302 or GEOS 2302 The Global Environment
NATS 1311 From the Cosmos to Earth
NATS 2333 Energy, Water, and the Environment
PHYS 1301 College Physics I

Language, Philosophy and Culture: 3 semester credit hours

Choose one course from the following:

AMS 2341 American Studies for the Twenty-First Century
HUMA 1301 Exploration of the Humanities
HUMA 2331 Masterpieces of World Literature
PHIL 1301 Introduction to Philosophy

Creative Arts: 3 semester credit hours

Choose one course from the following:

AHST 1303 Survey of Western Art History: Ancient to Medieval
AHST 1304 Survey of Western Art History: Renaissance to Modern
AHST 2331 Understanding Art
AHST 1301 Explorations of the Arts
American History: 6 semester credit hours

*Choose two courses from the following:

- HIST 1301 U.S. History Survey to Civil War
- HIST 1302 U.S. Survey from Civil War
- HIST 2301 History of Texas

Government / Political Science: 6 semester credit hours

- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

*Choose one course from the following:

- CRIM 1301 Introduction to Criminal Justice
- CRIM 1307 Introduction to Crime and Criminology
- ECON 2301 Principles of Macroeconomics
- ECON 2302 Principles of Microeconomics
- GEOG 2303 People and Place: An Introduction to World Geographic Regions
- SOC 1301 Introduction to Sociology

Component Area Option: 6 semester credit hours

- EPPS 2301 Research Design in the Social and Policy Sciences

And choose one course from the following:

- EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Sciences
- EPPS 2303 Descriptive and Inferential Statistics for the Social and Policy Sciences

II. Major Requirements: 42 semester credit hours

Major Preparatory Courses: 9 semester credit hours beyond Core Curriculum

- ENVR 2302 or GEOG 2302 or GEOS 2302 The Global Environment
- GEOG 2303 People and Place: An Introduction to World Geographic Regions
- GEOS 3304 The Global Economy
- GEOS 3377 or PA 3377 Urban Planning and Policy
- MATH 1325 Applied Calculus I
- MATH 1326 Applied Calculus II

Major Core Courses: 18 semester credit hours

- GEOG 3304 or GISC 3304 Introduction to Geospatial Information Sciences
- GEOS 4380 Spatial Concepts and Organization
GISC 2305 or GEOS 2305 Introduction to Spatial Thinking
GISC 3304 or GEOS 3304 or GEOS 3304 Principles of Geospatial Information Sciences
GEOS 4380 Spatial Concepts and Organization
GISC 4325 or GEOS 4325 Introduction to Remote Sensing
GISC 4382 Applied Geographic Information Systems
GISC 4386 Global Change and Its Challenges

Concentrations: 15 semester credit hours in ONE of the following concentration areas

Geography
GEOS 3331 Urban Growth and Structure
GEOS 3357 Spatial Dimensions of Health and Disease
GEOS 3359 Human Migration and Mobility
GEOS 3372 Population and Development
GEOS 3382 Russia: Yesterday, Today and Tomorrow

GeoComputation and GeoVisualization
GISC 4317 GeoComputation
GISC 4326 Cartography and GeoVisualization
GISC 4384 Health and Environmental GIS: A Global Perspective
GISC 4385 Advanced Applications in GIS
ITSS 3300 Information Technology for Business

III. Elective Requirements: 36 semester credit hours

Prescribed Electives: 15 semester credit hours
All students are required to take at least fifteen semester credit hours of prescribed upper-division elective courses.

Free Electives: 21 semester credit hours
This requirement may be satisfied with lower- and upper-division courses from any field of study. Students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.
School of Economic, Political and Policy Sciences

International Political Economy (BA, BS)

The International Political Economy program is an interdisciplinary academic program to help students function successfully in today's increasingly complex international environment. Graduates will develop skill sets that include critical thinking, knowledge of multiple cultures, and effective communication skills. Students will be prepared for analytical and administrative positions in the public, nonprofit, and for profit private sectors. The School of Economic, Political, and Policy Sciences offers both the BA and BS degrees in International Political Economy. The BA degree places greater emphasis on culture, literature, and history. The BS degree places greater emphasis on economics and international finance.

Employment prospects include, but are not limited to:

• The diplomatic corps;
• International organizations including The United Nations, World Trade Organization, World Bank, and others;
• Multinational corporations;
• Nongovernmental organizations.

Faculty List Placeholder

Bachelor of Arts in International Political Economy

Degree Requirements (120 semester credit hours) \(^1\)

I. Core Curriculum Requirements: 42 semester credit hours \(^2\)

Communication: 6 semester credit hours

- **COMM 1311** Survey of Oral and Technology-based Communication
- **RHET 1302** Rhetoric

Mathematics: 3 semester credit hours

- **MATH 1314** College Algebra

Life and Physical Sciences: 6 semester credit hours
Select any 6 semester credit hours from Life and Physical Sciences core courses (see advisor)

**Language, Philosophy and Culture: 3 semester credit hours**

Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

**Creative Arts: 3 semester credit hours**

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

**American History: 6 semester credit hours**

Select any 6 semester credit hours from American History core courses (see advisor)

**Government / Political Science: 6 semester credit hours**

- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

**Social and Behavioral Sciences: 3 semester credit hours**

- ECON 2301 Principles of Macroeconomics

**Component Area Option: 6 semester credit hours**

- ECON 2302 Principles of Microeconomics

And choose one course from the following:

- EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Sciences
- EPPS 2303 Descriptive and Inferential Statistics for the Social and Policy Sciences

II. Major Requirements: 60 semester credit hours

**Major Preparatory Course: 0 semester credit hours beyond Core Curriculum**

- ECON 2301 Principles of Macroeconomics
- ECON 2302 Principles of Microeconomics

Choose one course from the following:

- EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Sciences
- EPPS 2303 Descriptive and Inferential Statistics for the Social and Policy Sciences

**Major Core Courses: 12 semester credit hours**

Choose four courses from the following:
International Political Economy: 24 semester credit hours

All students are required to take at least twenty-four semester credit hours of electives from approved courses.

Area Electives: 12 semester credit hours

This requirement may be satisfied with upper-division courses from any given area within IPEC and related fields of study.

Foreign Language Requirement: 12 semester credit hours

The language requirement is 12 semester credit hours of the same language. Students can petition the Program Head for exceptions. If the language credit is obtained without taking classes, twelve additional semester credit hours of Free Electives (upper-division or lower-division) can be taken by student.

III. Electives Requirements: 18 semester credit hours

This requirement may be satisfied with lower- and upper-division courses from any field of study. Students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

Bachelor of Science in International Political Economy

Degree Requirements (120 semester credit hours)\(^1\)

I. Core Curriculum Requirements: 42 semester credit hours\(^2\)

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Mathematics: 3 semester credit hours
   MATH 1325 Applied Calculus I

Life and Physical Sciences: 6 semester credit hours
   Select any 6 semester credit hours from Life and Physical Sciences core courses (see advisor)

Language, Philosophy and Culture: 3 semester credit hours
   Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours
   Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours
   Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours
   GOVT 2305 American National Government
   GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
   ECON 2301 Principles of Macroeconomics

Component Area Option: 6 semester credit hours
   ECON 2302 Principles of Microeconomics
   EPPS 2303 Descriptive and Inferential Statistics for the Social and Policy Sciences

II. Major Requirements: 60 semester credit hours

Major Preparatory Courses: 0 semester credit hours beyond Core Curriculum
   ECON 2301 Principles of Macroeconomics
   ECON 2302 Principles of Microeconomics
   EPPS 2303 Descriptive and Inferential Statistics for the Social and Policy Sciences

Major Core Courses: 18 semester credit hours
   ECON 3310 Intermediate Microeconomic Theory
   ECON 3311 Intermediate Macroeconomic Theory

Comment [TV2]: Total of 60 semester hours right now due to the major prep course hours not counting. They are counted in the core curriculum since ECON 2301/2302 are coded 080+090. This means that one class will satisfy the social and behavioral sciences component and the other will satisfy the CAO component. EPPS 2303 will count as 3 hours for the CAO component. Therefore, the missing three hours will need to be added to the area electives or general electives.

Deleted: ECON 2302 Principles of Microeconomics
ECON 4360 International Trade

And choose three courses from the following:

- GEOG 2303 People and Place: An Introduction to World Geographic Regions
- GEOG 3304 Principles of Geospatial Information Sciences
- IPEC 3349 World Resources and Development
- IPEC 4301 Political Economy of Industrialized Countries
- IPEC 4302 Political Economy of Developing Countries
- PSCI 4329 Global Politics
- PSCI 4356 International Political Economy
- PSCI 4360 The Political Economy of Multinational Corporations

International Political Economy: 21 semester credit hours

All students are required to take at least twenty-one semester credit hours of electives from approved courses.

Area Electives: 9 semester credit hours

This requirement may be satisfied with upper-division courses from any given geographic area within IPEC and related fields of study.

Foreign Language Requirement: 12 semester credit hours

The language requirement is 12 semester credit hours of the same language. Students can petition the Program Head for exceptions. If the language credit is obtained without taking classes, twelve additional semester credit hours of Free Electives (upper-division or lower-division) can be taken by student.

III. Elective Requirements: 18 semester credit hours

This requirement may be satisfied with lower- and upper-division courses from any field of study. Students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

1. Incoming freshmen must complete and pass UNIV 1010 Freshman Seminar and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. A required major preparatory course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.
School of Economic, Political and Policy Sciences

Bachelor of Science in Global Business and International Political Economy

Comment [TV3]: new degree
Comment [MJ4]: This will be a stand alone/separate web page – see separate file.
School of Economic, Political and Policy Sciences

Faculty List Placeholder

Bachelor of Science in Global Business and International Political Economy (Double Major)

Degree Requirements (142 semester credit hours)

A minimum of 9 semester credit hours must be earned during a semester of study abroad. Any 9 semester credit hours from the degree plan may be chosen, however, students should be aware that study abroad courses are subject to a pre-approval process to ensure transferability.

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication

RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

MATH 1325 Applied Calculus 1, 5, 6

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses (see advisor and degree requirements)

Language, Philosophy and Culture: 3 semester credit hours

Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours
Select any 6 semester credit hours from American History core courses (see advisor)

**Government / Political Science: 6 semester credit hours**

- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

**Social and Behavioral Sciences: 3 semester credit hours**

- ECON 2301 Principles of Macroeconomics

**Component Area Option: 6 semester credit hours**

- MATH 1326 Applied Calculus II
- ECON 2302 Principles of Microeconomics

**Major Requirements: 100 semester credit hours**

**Global Business Major Preparatory Courses: 15 semester credit hours beyond Core Curriculum**

- ACCT 2301 Introductory Financial Accounting
- ACCT 2302 Introductory Management Accounting
- BLAW 2301 Business and Public Law
- ECON 2301 Principles of Macroeconomics
- ECON 2302 Principles of Microeconomics
- MATH 1325 Applied Calculus I
- MATH 1326 Applied Calculus II
- OPRE 3333 Quantitative Business Analysis
- or MATH 2333 Matrices, Vectors, and Their Application
- STAT 3360 Probability and Statistics for Management and Economics
- or OPRE 3360 Managerial Methods in Decision Making Under Uncertainty

**Major Core Courses: 28 semester credit hours**

- IMS 3100 Professional Development
- BCOM 3310 Business Communication
- BCOM 4350 Advanced Business Communication
- FI 3320 Business Finance
- ITSS 3300 Introduction Technology for Business
- OPRE 3310 Operations Management
- OBHR 3310 Organizational Behavior
- MKT 3300 Principles of Marketing
Major Related Courses: 12 semester credit hours

- IMS 4320 International Marketing
- FIN 3380 International Financial Management
- IMS 4330 Global Human Resource Management
- IMS 4373 Global Strategy

International Political Economy (IPEC) Core Courses: 21 semester credit hours

Choose 7 courses from the following

- ECON 3310 Intermediate Microeconomic Theory
- ECON 3311 Intermediate Macroeconomic Theory
- ECON 4360 International Trade
- IPEC 3349 World Resources and Development
- IPEC 4301 Political Economy of Industrialized Countries
- IPEC 4302 Political Economy of Developing Countries
- PSCI 4329 Global Politics
- PSCI 4356 International Political Economy
- PSCI 4360 The Political Economy of Multinational Corporations

Foreign Language Requirement: 12 semester credit hours of the same language

If the language credit is obtained without taking classes, twelve additional semester credit hours of Free Electives (upper-division or lower-division) can be taken by student. May include 3 semester credit hours from BCOM 3320, BCOM 3321, BCOM 3322, BCOM 3323.

Upper-Division Major Related Electives: 12 semester credit hours

All students are required to take at least twelve semester credit hours of electives from IPEC or other approved courses.

Other lower- and upper-division courses may count as electives but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

JSOM / EPPS freshmen are required to take BA 1100 Business Basics or EPPS 1110 Freshman Seminar.

Each student is expected to complete a minimum of 160 hours of business-related work to fulfill the JSOM professional practicum requirement.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Students with non-academic obligations (for example, full time jobs) who cannot study abroad for an entire semester may request a waiver to substitute 6 semester credit hours of faculty led study trips (IMS 3V91, IMS 3V92, IMS 3V93, IMS 3V94, IMS 3V95, IMS 3V96). An international internship may also be substituted for the
semester of study abroad.

3. Curriculum requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major requirements at UT Dallas.

4. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

5. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

6. Students may elect to substitute MATH 2413 and MATH 2414 or MATH 2417 and MATH 2419.

7. Students may substitute MATH 2418 or CS 2305.
School of Economic, Political and Policy Sciences

Political Science (BA)

Political Science involves the study of interesting and important topics about citizenship, government and politics. These topics include the influence of citizens on what government does, the scope, responsibilities and effectiveness of government itself, and the activities of both elected and appointed public officials. These topics are important parts of what political scientists know about American government and politics, comparative government and politics, international relations, political behavior, political economy, political institutions, and political theory. Political scientists and public administrators pay particular attention to the design, implementation, and evaluation of laws and public policies that may affect people's well-being.

The Political Science Program at The University of Texas at Dallas provides:

• the foundations for more advanced, graduate study of citizenship, government and politics in Political Science;

• the special core knowledge needed for subsequent professional education in law and public policy analysis;

• the opportunity to acquire useful skills for careers in federal, state, and local government, community service, educational and other nonprofit organizations, and business firms.

Faculty List Placeholder

Bachelor of Arts in Political Science

Degree Requirements (120 semester credit hours)¹

I. Core Curriculum Requirements: 42 semester credit hours²

Communication: 6 semester credit hours

  COMM 1311 Survey of Oral and Technology-based Communication
  RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

  MATH 1314 College Algebra

Life and Physical Sciences: 6 semester credit hours

  Select any 6 semester credit hours from Life and Physical Sciences core courses (see advisor)
Language, Philosophy and Culture: 3 semester credit hours

Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours

Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours

**GOVT 2305** American National Government

**GOVT 2306** State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

Choose one course from the following:

**CRIM 1301** Introduction to Criminal Justice

**ECON 2301** Principles of Macroeconomics

**ECON 2302** Principles of Microeconomics

**SOC 1301** Introduction to Sociology

Component Area Option: 6 semester credit hours

**EPPS 2301** Research Design in the Social and Policy Sciences

And choose one course from the following:

**EPPS 2302** Methods of Quantitative Analysis in the Social and Policy Sciences

**EPPS 2303** Descriptive and Inferential Statistics for the Social and Policy Sciences

II. Major Requirements: 57 semester credit hours

Major Preparatory Courses: 0 semester credit hours beyond Core Curriculum

**GOVT 2305** American National Government

**GOVT 2306** State and Local Government

And choose one course from the following:

**EPPS 2302** Methods of Quantitative Analysis in the Social and Policy Sciences

**EPPS 2303** Descriptive and Inferential Statistics for the Social and Policy Sciences
Major Core Courses: 18 semester credit hours

Required Core Courses: Take all of the following; 9 semester credit hours
- PSCI 3322 Constitutional Law
- PSCI 3333 Political Behavior
- PSCI 3362 The American Political Institutions

Choose two courses from the following; 6 semester credit hours
- PSCI 3301 Political Theory
- PSCI 3328 International Relations
- PSCI 3350 Comparative Politics
- PSCI 4329 Global Politics

Choose one course from the following; 3 semester credit hours
- PSCI 3325 American Public Policy
- PSCI 4307 Predicting Politics
- PSCI 4360 The Political Economy of Multinational Corporations

Major Related Courses: 39 semester credit hours
- Major and Related electives

Choose two courses from the following; 6 semester credit hours
- PSCI 3325 American Public Policy
- PSCI 3333 Political Behavior
- PSCI 3362 The American Political Institutions
- PSCI 4307 Predicting Politics
- PSCI 4360 The Political Economy of Multinational Corporations

III. Elective Requirements: 21 semester credit hours

This requirement may be satisfied with lower- and upper-division courses from any field of study. Students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.
3. A Core Curriculum Requirement that also fulfills a Major Requirement. Semester credit hours are counted in the Core Curriculum.

4. Most students take upper-division PSCI courses. However, subject to advisor approval, courses from other disciplines may be used to satisfy this requirement.
School of Economic, Political and Policy Sciences

Public Affairs (BS)

The Bachelor of Science in Public Affairs is intended for individuals called upon to manage in the arenas of government, nonprofits, or business. These generalist managers must synthesize many forms of knowledge derived from government, economics, sociology, and other fields, and must apply that knowledge creatively to meet the varied and multiple challenges of public administration. The ability to understand the substance of policy and program issues; the ability to grasp the administrative, political, and ethical implications embedded in them; and the ability then to act upon the issues with effect, together define the worth of contemporary managers.

The Public Affairs program promotes acquisition of knowledge and skills essential to the tasks of identification, analysis, design implementation, supervision, evaluation, communication, and other key functions that are integral components of management careers in federal, state, and local governments; criminal justice; in social service, education, community development, arts and other nonprofit organizations; and in business firms.

Faculty List Placeholder

Bachelor of Science in Public Affairs

Degree Requirements (120 semester credit hours)\(^1\)

I. Core Curriculum Requirements: 42 semester credit hours\(^2\)

Communication: 6 semester credit hours

- COMM 1311 Survey of Oral and Technology-based Communication
- RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

Choose one course from the following:

- MATH 1306 College Algebra for the Non-Scientist
- MATH 1314 College Algebra

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses (see advisor)

Language, Philosophy and Culture: 3 semester credit hours
Choose one course from the following:

- HUMA 1301 Exploration of the Humanities
- LIT 2331 Masterpieces of World Literature
- PHIL 1301 Introduction to Philosophy
- PHIL 2316 History of Philosophy I
- PHIL 2317 History of Philosophy II

Creative Arts: 3 semester credit hours

- ARTS 1301 Exploration of the Arts

American History: 6 semester credit hours

- HIST 1301 U.S. History Survey to Civil War
- HIST 1302 U.S. History Survey from Civil War

Government / Political Science: 6 semester credit hours

- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

- PA 2325 Introduction to Public Service

Component Area Option: 6 semester credit hours

- EPPS 2301 Research Design in the Social and Policy Sciences
- EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Sciences
- EPPS 2303 Descriptive and Inferential Statistics for the Social and Policy Sciences

And choose one course from the following:

- EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Sciences
- EPPS 2303 Descriptive and Inferential Statistics for the Social and Policy Sciences

II. Major Requirements: 48 semester credit hours

Major Preparatory Courses: 3 semester credit hours beyond Core Curriculum

- ECON 2301 Principles of Macroeconomics
- ECON 2302 Principles of Microeconomics

Major Core Courses: 24 semester credit hours

- PA 3306 Advanced Research and Writing for the Policy Sciences
- PA 3310 Public Management
- PA 3381 Field Research Methods
- PA 3382 Administration
III. Elective Requirements: 30 semester credit hours

This requirement may be satisfied with lower- and upper-division courses from any field of study. Students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. Most students take upper-division PA courses. However, subject to advisor approval, courses from other disciplines may be used to satisfy this requirement.

4. A Major requirement that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

5. Prerequisite course to upper-division PA courses.
School of Economic, Political and Policy Sciences

Sociology (BA)

Sociology offers a scientific approach to examining social groups, human interactions, and social change. Sociologists are interested in a wide range of topics and issues related to social life. Some examples of sociological questions include: Why do some groups have more resources and power than others in society and what explains these inequalities? What factors influence marriage and divorce rates? How do families, schools, churches, and corporations affect social control? What are the functions of welfare programs? How do cities grow and transform to reflect changing technologies and population trends? How does law interact with society and social institutions? What are the causes and consequences of crime and deviant behavior?

The mission of the BA in Sociology is to provide undergraduate students (both majors and non-majors) with broad knowledge of the theoretical concepts, empirical research findings, and methodological approaches of the discipline of sociology, with an emphasis on theory and research related to social inequality. As part of this program, sociology majors should gain mastery of these concepts, findings, and approaches central to sociology, as well as develop basic skills in empirical analysis and professional communication.

At UT Dallas, sociology majors are encouraged to go beyond scholarly study to explore ways that sociology can be utilized in corporations, government agencies, or voluntary organizations. Sociology graduates of the university have pursued careers or graduate study in a variety of areas including policy research, social services, business, law, education, law enforcement, and other social sciences.

Faculty List Placeholder

Bachelor of Arts in Sociology

Degree Requirements (120 semester credit hours)\(^1\)

I. Core Curriculum Requirements: 42 semester credit hours\(^2\)

Communication: 6 semester credit hours

- **COMM 1311** Survey of Oral and Technology-based Communication
- **RHET 1302** Rhetoric

Mathematics: 3 semester credit hours

Choose one course from the following:

- **MATH 1306** College Algebra for the Non-Scientist
MATH 1314 College Algebra

Life and Physical Sciences: 6 semester credit hours
Select any 6 semester credit hours from Life and Physical Sciences core courses (see advisor)

Language, Philosophy and Culture: 3 semester credit hours
Choose one course from the following:

- HUMA 1301 Exploration of the Humanities
- LIT 2331 Masterpieces of World Literature
- PHIL 1301 Introduction to Philosophy
- PHIL 2316 History of Philosophy I
- PHIL 2317 History of Philosophy II

Creative Arts: 3 semester credit hours
- ARTS 1301 Exploration of the Arts

American History: 6 semester credit hours
- HIST 1301 U.S. History Survey to Civil War
- HIST 1302 U.S. History Survey from Civil War

Government / Political Science: 6 semester credit hours
- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
- SOC 1301 Introduction to Sociology

Component Area Option: 6 semester credit hours
Choose one course from the following:

- EPPS 2301 Research Design in the Social and Policy Sciences
- EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Sciences

II. Major Requirements: 48 semester credit hours

Major Preparatory Courses: 3 semester credit hours beyond Core Curriculum

- ECON 2301 Principles of Macroeconomics
- or ECON 2302 Principles of Microeconomics
- EPPS 2301 Research Design in the Social and Policy Sciences
- EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Sciences

Comment [EM1]: Should this section include the “One of the following:” phrasing? Yes.

Comment [EM2]: Should the 4 footnote be removed from ECON 2301 and ECON 2302 as they are not counted in the core count? Yes.
or EPPS 2303 Descriptive and Inferential Statistics for the Social and Policy Sciences \(^4, 5\)
SOC 1301 Introduction to Sociology \(^4, 5\)

Major Core Courses: 18 semester credit hours

SOC 3303 Classical Social Theory
SOC 3305 Applied Data Analysis
SOC 3381 Field Research Methods
SOC 4302 Class, Status, and Power
SOC 4306 Advanced Sociological Research
Choose one course from the following:
SOC 3333 Religion in Society
SOC 4385 Health and Illness in Global and Cross-national Perspective
SOC 4387 Religion in International Development

Major Related Courses: 27 semester credit hours

18 semester credit hours of upper-division Sociology courses
9 semester credit hours Major and Related electives \(^3\)

III. Elective Requirements: 30 semester credit hours

This requirement may be satisfied with lower- and upper-division courses from any field of study. Students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related Freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.
2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.
3. Most students take upper-division SOC courses. However, subject to advisor approval, courses from other disciplines may be used to satisfy this requirement.
4. A Major requirement that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.
5. Prerequisite course to upper-division SOC courses.
School of Economic, Political and Policy Sciences

Minors

Students must take a minimum of 18 semester credit hours for the minor, 12 of which must be upper-division semester credit hours. Students who take a minor will be expected to meet the normal prerequisites in courses making up the minor, and should maintain a minimum GPA of 2.000 on a 4.00 scale (C average). Semester credit hours may not be used to satisfy both the major and minor requirements; however, free elective semester credit hours or major preparatory classes may be used to satisfy the minor. The undergraduate minors in the School of Economic, Political and Policy Sciences are:

- Criminology
- Economics
- Geography
- Geospatial Information Sciences
- International Political Economy
- Political Science
- Public Affairs
- Public Health
- Sociology

Minor in Criminology: 18 semester credit hours

Required Courses: 6 semester credit hours

CRIM 1301 Introduction to Criminal Justice
CRIM 1307 Introduction to Crime and Criminology

Upper-Division Courses: 12 semester credit hours

One of the following:

Any CRIM upper-division courses excluding CRIM 4V97, CRIM 4V98, and CRIM 4V99.
Minor in Economics: 18 semester credit hours

Required Courses: 9 semester credit hours
- ECON 2301 Principles of Macroeconomics
- ECON 2302 Principles of Microeconomics
- ECON 3310 Intermediate Microeconomic Theory
  or ECON 3311 Intermediate Macroeconomic Theory

Upper-Division Courses: 9 semester credit hours
Any upper-division ECON courses excluding ECON 4V97, ECON 4V98, and ECON 4V99.

Minor in Geography: 18 semester credit hours

Required Courses: 9 semester credit hours
- GEOG 2302 The Global Environment
- GEOG 3304 Principles of Geospatial Information Sciences
- GEOG 3370 The Global Economy

Upper-Division Courses: 9 semester credit hours
Any upper-division Geography (GEOG) or Geographic Information Sciences (GISC) courses, excluding GEOG 4V97, GEOG 4V98, and GEOG 4V99.

Minor in Geospatial Information Sciences (GIS): 18 semester credit hours

Required Courses: 9 semester credit hours
- GISC 2305 Introduction to Spatial Thinking
- GISC 3304 or GEOG 3304 Principles of Geospatial Information Sciences
  GISC 4325 Introduction to Remote Sensing

Upper-Division Courses: 9 semester credit hours
Any upper-division Geography (GEOG) or Geographic Information Sciences (GISC) courses, excluding GEOG 4V97, GEOG 4V98, and GEOG 4V99.
Minor in International Political Economy: 18 semester credit hours

Choose 6 courses from the following (with at least 4 being upper-division courses):

- ECON 2301 Principles of Macroeconomics
- ECON 2302 Principles of Microeconomics
- GEOG 2303 People and Place: An Introduction to World Geographic Regions
- GEOG 3304 Principles of Geospatial Information Sciences
- GEOG 3370 Global Economy
- IPEC 3349 World Resources and Development
- IPEC 4301 Political Economy of Industrialized Countries
- IPEC 4302 Political Economy of Developing Countries
- IPEC 4303 Political Economy of South and Southeast Asia
- IPEC 4304 Political Economy of Latin America
- IPEC 4305 Topics in Science, Technology and Institutions
- IPEC 4307 Regional Topics in International Political Economy
- IPEC 4308 Political Economy of Africa
- IPEC 4309 Urban Development
- IPEC 4310 Environmental and Health Policy in East Asia
- IPEC 4384 Health and Environmental Policy: A Global Perspective
- IPEC 4396 Topics in International Political Economy
- PSCI 4329 Global Politics
- PSCI 4332 Latin American Politics
- PSCI 4347 The War on Drugs
- PSCI 4348 Terrorism
- PSCI 4356 International Political Economy
- PSCI 4360 The Political Economy of Multinational Corporations

Minor in Political Science: 18 semester credit hours

Required Courses: 6 semester credit hours
**GOVT 2305** American National Government  
**GOVT 2306** State and Local Government

**Upper-Division Courses: 12 semester credit hours**
Any upper-division courses with a PSCI prefix except PSCI 4V76, PSCI 4V97, PSCI 4V98 and PSCI 4V99.

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**Minor in Public Affairs: 18 semester credit hours**

**Required Courses: 6 semester credit hours**
- **PA 3310** or **PSCI 3310** Public Management  
- **PA 3333** Human Resources Management

**Upper-Division Courses: 12 semester credit hours**
Any upper-division course with a PA prefix with the exception of PA 4V97, PA 4V98, and PA 4V99.

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**Minor in Public Health: 18 semester credit hours**

**Required Courses: 9 semester credit hours**
- **SOC 4369** Public Health and Society  
- **SOC 4384** Health Behavior  
- **SOC 4385** Health and Illness in Global and Cross-national Perspective

**Electives: 9 semester credit hours**
Any three (3) of the following courses will be accepted as electives for the minor. Other courses will be considered on a case-by-case basis by the program coordinator.
- **ECON 3330** Economics of Health  
- **GEOG 3357** Spatial Dimensions of Health and Disease  
- **GEOG 3372** Population and Development  
- **HIST 3328** History and Philosophy of Science and Medicine  
- **HLTH 1322** Human Nutrition  
- **HLTH 3301** Issues in Geriatric Healthcare  
- **HLTH 3305** The U.S. Healthcare System  
- **HLTH 3310** Health Care Issues: Global Perspectives
Minor in Sociology: 18 semester credit hours

Required Courses: 9 semester credit hours

- SOC 1301 Introduction to Sociology
- SOC 3303 Classical Social Theory
- SOC 4302 Class, Status, and Power

Upper-Division Courses: 9 semester credit hours

Any upper-division classes with a SOC prefix with the exception of SOC 4V97, SOC 4V98, and SOC 4V99.
Degree Programs
Erik Jonsson School of Engineering and Computer Science

Named in honor of one of the three founders of Texas Instruments, Inc. and of The University of Texas at Dallas, the Erik Jonsson School of Engineering and Computer Science provides undergraduate degree preparation for professional practice as an engineer or computer scientist. Particular emphasis is placed on developing strong analytical and problem solving abilities as a foundation for graduate study in these fields.

The school’s curricula emphasize electronic information processing devices and technologies that are involved with the acquisition, interpretation, transmission, and utilization of information. The school offers seven degree programs: Biomedical Engineering, Computer Engineering, Computer Science, Electrical Engineering, Mechanical Engineering and Software Engineering, a minor in Nanoscience and Nanotechnology is offered by the Department of Materials Science and Engineering. The Biomedical Engineering program offers students the opportunity to combine engineering with biology and physiology. The Computer Science program emphasizes the design and analysis of efficient parallel and sequential algorithms with applications in VLSI layout and routing, distributed networks and operating systems, image processing, computational geometry, automation and robotics. The Software Engineering program concentrates on all aspects of software development including requirements engineering, software architecture and design, program testing, validation, and quality assurance. The Electrical Engineering program offers students an opportunity to acquire a solid foundation in the broad areas of electrical engineering and emphasizes advanced study in digital systems, telecommunications, and microelectronics. The Mechanical Engineering program focuses on the analysis, design, manufacturing of mechanical and thermal systems with particular emphasis on energy conversion, harvesting, and utilization, micro- and nano-technology devices and processes, and robotics. The Computer Engineering program is interdisciplinary, as it requires a blend of knowledge from the areas of Electrical Engineering and Computer Science.

All programs are based on a solid foundation of science and mathematics coursework. Students in these programs are given an opportunity to learn to extend their abilities to analyze and solve complex problems and to design new uses of technology to serve today’s society. The Engineering programs provide an integrated educational experience directed toward the development of the ability to apply pertinent knowledge to the identification and solution of practical problems in engineering. These programs ensure that the design experience is developed and integrated throughout the curriculum in a sequential development leading to advanced work and includes both analytical and experimental studies. Established cooperative education programs with area industry serve to further supplement design experiences.

The University of Texas at Dallas is located at the heart of a high concentration of companies that specialize in the areas of microelectronics, telecommunications, signal processing, and optics. The Erik Jonsson School of Engineering and Computer Science maintains close relationships with these companies and has established cooperative programs through which students can obtain industrial experience to complement their classroom instruction. Details of specific cooperative programs between Computer Science and Engineering students and local companies are available in the respective program offices.
Industrial Practice Programs

The Industrial Practice Programs (IP Programs or IPP) of the Erik Jonsson School of Engineering and Computer Science include the school's Cooperative Education, Internship, and Curricular Practical Training Programs. These programs combine classroom learning with paid work experience. Qualified students are referred to participating employers seeking candidates for career-related, pre-professional work assignments. The programs enhance a student's education and career preparation by integrating classroom theory with on-the-job performance, providing an understanding of work environments and professional requirements, testing career and professional goals, developing confidence, maturity and skills in human relations, and establishing contacts and interests.

Students are expected to register with and follow the rules of the IP Programs when working in any position titled by the employer as an Internship or a Cooperative Education assignment. Also, the Jonsson School offers one semester credit hour ECSC courses (may be used towards free elective requirements), and a three-semester credit hour course (may be used towards advanced free elective requirements) that provide students the opportunity to evaluate their work experience.

For more information about the IP programs, call (972) 883-4363. The IP Programs Office is located in the Student Services suite (ECS South 2.502).

Minors

To minor in the Erik Jonsson School of Engineering and Computer Science, students must take a minimum of 18 semester credit hours for the minor, 12 of which must be upper-division semester credit hours. Students who take a minor will be expected to meet the normal prerequisites in courses making up the minor, and should maintain a minimum GPA of 2.000 on a 4.00 scale (C average). Core courses offered by the school may count as lower-division semester credit hours toward the minor. Students may choose to minor in any of the following fields of study:

Department of Computer Science

• Computer Science
• Information Assurance
• Software Engineering

Department of Materials Science and Engineering

• Nanoscience and Technology

Erik Jonsson School of Engineering and Computer Science

Department of Bioengineering

Biomedical Engineering (BS)

Faculty

Professors: Orlando Auciello, Stuart Cogan, Stephen D. Levene, Robert L. Rennaker II, David W. Schmidtke

Associate Professors: Shalini Prasad, Mario Romero-Ortega, Mihaela Stefan

Assistant Professors: Leonidas Bleris, Robert D. Gregg, Heather Hayenga, Seth A. Hays, Lan Ma, Hyun-Joo Nam, Danieli Rodrigues, Walter E. Voit, Jun Wang, Hyuntae Yoo

Senior Lecturers: Tariq Ali, Allison Case, Steve Foland, Clark A. Meyer, Todd W. Polk, Joe Pacheco

UT Dallas Affiliated Faculty: Jonathan Cheng, Xin-Lin Gao, Michael P. Kilgard, Balakrishnan Prabhakaran, A. Dean Sherry, Emily A. Tobey, Mathukumalli Vidyasagar, Michael Qiwei Zhang

Mission of the Department of Bioengineering

The mission of the Bioengineering Department is to provide a state-of-the-art, highly interdisciplinary, teaching and research environment for undergraduate and graduate students. Whether at undergraduate or post-graduate levels, our students will be able to reach across traditional disciplinary boundaries, and work effectively with experts in engineering, life sciences, and medicine. At the Bachelors level, our graduates will be ready to meet the rapidly growing demand for bioengineers, and tackle challenges in emerging areas, including but not limited to personalized medicine, biomedical devices, and targeted drug delivery. At the Masters and PhD levels, our graduates will undertake original cutting-edge research at the forefront of scientific and technological developments in bioengineering.

High School Preparation

Engineering education requires a strong high school preparation. Pre-engineering students should have high school preparation of at least one-half year in trigonometry and at least one year each in elementary algebra, intermediate and advanced algebra, plane geometry, chemistry, and physics, thus developing their competencies to the highest possible levels and preparing to move immediately into demanding college courses in calculus, calculus-based physics, and chemistry for science majors. It is also essential that pre-engineering students have the competence to read rapidly and with comprehension, and to write clearly and correctly.
Lower-Division Study

All lower-division students in Biomedical Engineering concentrate on mathematics, science, and introductory engineering courses, building competence in these cornerstone areas for future application in upper-division engineering courses. The following requirements apply both to students seeking to transfer to UT Dallas from other institutions as well as to those currently enrolled at UT Dallas, whether in another school or in the Erik Jonsson School of Engineering and Computer Science.

Academic Progress in Biomedical Engineering

In order to make satisfactory academic progress as a Biomedical Engineering major, a student must meet all university requirements for academic progress, and must earn a grade of C- or better in each of the "major requirements" courses. No "Major Requirement" course may be taken until the student has obtained a grade of C- or better in each of the prerequisites. If a higher grade requirement is stated for a specific class, the higher requirement applies.

Bachelor of Science in Biomedical Engineering

Degree Requirements (121 semester credit hours)

1. Core Curriculum Requirements: 42 semester credit hours

   Communication: 6 semester credit hours
   - RHET 1302 Rhetoric
   - ECS 3390 Professional and Technical Communication

   Mathematics: 3 semester credit hours
   - MATH 2417 Calculus

   Life and Physical Sciences: 6 semester credit hours
   - PHYS 2325 Mechanics
   - PHYS 2326 Electromagnetism and Waves

   Language, Philosophy and Culture: 3 semester credit hours
   Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

   Creative Arts: 3 semester credit hours
   Select any 3 semester credit hours from Creative Arts core courses (see advisor)
American History: 6 semester credit hours
Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours
- **GOVT 2305** American National Government
- **GOVT 2306** State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
- **ECS 3361** Social Issues and Ethics in Computer Science and Engineering

Component Area Option: 6 semester credit hours
- **MATH 2417** Calculus I
- **MATH 2419** Calculus II
- **PHYS 2125** Physics Laboratory

II. Major Requirements: 79 semester credit hours

Major Preparatory Courses: 22 semester credit hours beyond Core Curriculum
- **CHEM 1111** General Chemistry Laboratory I
- **CHEM 1311** General Chemistry I
- **CHEM 1312** General Chemistry II
- **CHEM 1112** General Chemistry II Laboratory
- **CS 1324** Introduction to Programming for Biomedical Engineers
- **BIOL 2311** Introduction to Modern Biology I
- **BIOL 2111** Introduction to Modern Biology Workshop I
- **BIOL 2281** Introductory Biology Laboratory
- **MATH 2417** Calculus I
- **MATH 2419** Calculus II
- **MATH 2420** Differential Equations with Applications
- **PHYS 2125** Physics Laboratory I
- **PHYS 2126** Physics Laboratory II
- **PHYS 2326** Mechanics
- **PHYS 2326** Electromagnetism and Waves
Major Core Courses: 48 semester credit hours beyond Core Curriculum

- ECS 1100 Introduction to Engineering and Computer Science
- BMEN 1100 Introduction to Biomedical Engineering
- BMEN 1208 Introduction to Biomedical Bioengineering
- ENGR 2300 Linear Algebra for Engineers
- BMEN 2320 Statics
- ECS 3361 Social Issues and Ethics in Computer Science and Engineering
- ECS 3390 Professional and Technical Communication
- ENGR 3300 Advanced Engineering Mathematics
- EE 3302Signals and Systems
- EE 3102 Signals and Systems Laboratory
- BMEN 3320 Electrical and Electronic Circuits in Biomedical Engineering
- BMEN 3120 Biomedical Circuits and Instrumentation Laboratory
- BMEN 3130 Engineering Physiology of the Human Body
- BMEN 3130 Engineering Physiology Laboratory
- ENGR 3341 Probability Theory and Statistics
- BMEN 3350 Biomedical Component and System Design
- BMEN 3150 Biomedical Engineering
- BMEN 3360 Thermodynamics
  or BMEN 3315 Thermodynamics and Physical Chemistry in Biomedical Engineering
- BMEN 4310 Feedback Systems in Biomedical Engineering
- BMEN 4110 Biomedical Feedback Systems Laboratory
- BMEN 4360 Biomaterials and Medical Devices
- BMEN 4388 Senior Design Project I
- BMEN 4389 Senior Design Project II

Prescribed Electives: 9 semester credit hours

Students pursuing the general program take 9 semester credit hours using any other BMEN 3000 level or higher class. Students must document 9 semester credit hours of engineering content for these to count towards their degree.

Fast Track Baccalaureate/Master's Degrees

In response to the need for advanced education in Biomedical engineering, a Fast Track program is
available to well-qualified UT Dallas undergraduate students. **Qualified seniors may take up to 15 graduate semester credit hours that may be used to complete the baccalaureate degree and also to satisfy the requirements for the master's degree.** The Fast Track program is designed to accelerate a student’s education so that both a BS and an MS degree can be earned in five years of full-time study. This is accomplished by (1) taking courses (typically electives) during one or more summer semesters, and (2) beginning graduate coursework during the senior year. Details are available from the Associate Dean for Undergraduate Education.

### Honors Program

The Department of Biomedical Engineering offers upper-division Honors for outstanding students in the BS Biomedical Engineering degree program. This program offers special sections of designated classes and other activities designed to enhance the educational experience of exceptional students. Admission to the Honors programs requires a 3.500 or better GPA in at least 30 semester credit hours of coursework. Graduation with Honors requires a 3.500 or better GPA and completion of at least 6 honors classes. These honors classes must include either Senior Honors (BMEN 4399) or Undergraduate Research in Biomedical Engineering (BMEN 4V98) and a Senior Honors Thesis must be completed within one of those two classes. While the topics may be related, the Senior Thesis does not replace the need for the student to complete a regular Senior Design Project. The other 5 honors classes can come from a mixture of Graduate level (up to a count of 4) classes and special honor sections of regular undergraduate BMEN classes (up to a count of 2).

Departmental Honors with Distinction may be awarded to students whose Senior Honors Thesis is judged by a faculty committee to be of exemplary quality. Only students graduating with Departmental Honors are eligible. Thesis/projects must be submitted by the deadline that applies to MS Theses in the graduating semester to allow for proper evaluation. Students interested in Honors with Distinction are encouraged to start working on their thesis/project a year prior to graduation.

### Minors

The Department of Bioengineering does not offer minors at this time.

1. **Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.**

2. **Curriculum Requirements can be fulfilled by other approved courses. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.**

3. Semester credit hours fulfill the communication component of the Core Curriculum.

4. Three semester credit hours of Calculus are counted under Mathematics Core, and five semester credit hours of Calculus are counted as Component Area Option Core.

5. Six semester credit hours of Physics are counted under Science core, and one semester credit hour of Physics (PHYS 2125) is counted as Component Area Option Core.

6. Students must pass each of the major requirement courses listed in this degree plan and each of their prerequisites, with a grade of C- or better.

7. **Transfer students with sufficient background may petition to substitute upper-division semester credit hours in the**
major for this class.

8. Semester credit hours contribute to the Social and Behavioral Sciences component of the Core Curriculum.
Interdisciplinary Programs

The Erik Jonsson School of Engineering and Computer Science offers a Bachelor of Science program in Computer Engineering. This program is delivered by faculty from the Departments of Computer Science and Electrical Engineering.

Computer Engineering (BS)

The Computer Engineering program is interdisciplinary. It was designed by the combined faculties of the Computer Science Department and the Electrical Engineering Department. Computer Engineering requires a blend of knowledge from the areas of hardware (Electrical Engineering) and software (Computer Science). The focus of the Computer Engineering degree is to provide excellent education in modern computer systems and prepare its graduates for outstanding careers in the rapidly changing and growing profession and for further continuing education.

The Computer Engineering program is based on a solid foundation of science and mathematics coursework. Students in this program are given an opportunity to learn to extend their abilities to analyze and solve complex problems and to design new uses of technology to serve today's society. This program provides an integrated education experience directed toward the development of the ability to apply pertinent knowledge to the identification and solution of practical problems in computer engineering.

The Computer Engineering curriculum ensures that the design experience, which includes both analytical and experimental studies, is integrated throughout in a sequential development leading to advanced work. Design problems are frequently assigned in both lecture and laboratory courses. Each student is required to complete a major design project during the senior year. In addition, established cooperative education programs with area industries may further supplement a student's design experiences.

Affiliated Faculty


Professor Emeritus: William J. Pervin

Associate Professors: Jorge A. Cobb, Roozbeh Jafari, Neeraj Mittal, Issa M. S. Panahi

Assistant Professors: Joseph Callenes-Sloan, Myoungsoo Jung, Jun Wang

Senior Lecturers: Nathan B. Dodge, Greg Ozbirn, William (Bill) Swartz
Mission of the Computer Engineering (CE) Program

The focus of the Computer Engineering degree is to provide excellent education in modern computer engineering practice. Our graduates are uniquely qualified for rewarding and successful careers in materials, devices, circuits, digital systems, signal processing, and communications. In the spring of 2005, the CE faculty adopted a new set of Program Educational Objectives that refined the prior objectives and established measurements and benchmarks to monitor progress. A feedback mechanism using Alumni Surveys (by the ECS Office of Assessment) and other tools are used to measure progress toward these objectives.

Goals for the Computer Engineering Program

The focus of the Computer Engineering degree at UT Dallas is to provide excellent education in both computer science and electrical engineering. Our graduates shall be uniquely qualified to apply traditional engineering design and problem solving skills to modern computer systems comprising both hardware and software components.

Program Educational Objectives for Computer Engineering

One broad goal for the Erik Jonsson School is an excellent education for our students. Within a few years after graduation, graduates of the Computer Engineering program should:

- Have a successful, long-lived engineering based career path.
- Meet the needs of industry.
- Contribute to, and/or lead engineering based teams.
- Actively pursue continuing (lifelong) learning.

High School Preparation

Engineering education requires a strong high school preparation. Pre-engineering students should have high school preparation of at least one-half year in trigonometry and at least one year each in elementary algebra, intermediate and advanced algebra, plane geometry, chemistry, and physics, thus developing their competencies to the highest possible levels and preparing them to move immediately into demanding college courses in calculus, calculus-based physics and chemistry for science majors. Pre-Computer Engineering students should have some experience with elementary programming in a high level language such as C, C++, or Java. It is also essential that pre-engineering students have the competence to read rapidly and with comprehension, and to write clearly and correctly.

Lower-Division Study

All lower-division students in Computer Engineering concentrate on mathematics, science, and introductory engineering courses, building competence in these cornerstone areas for future application in upper-division
engineering courses. The following requirements apply both to students seeking to transfer to UT Dallas from other institutions as well as to those currently enrolled at UT Dallas, whether in another school or in the Erik Jonsson School of Engineering and Computer Science.

ABET Accreditation

The BS program in Computer Engineering is accredited by the Engineering Accreditation Commission of ABET, www.abet.org.

Academic Progress in Computer Engineering

In order to make satisfactory academic progress as a Computer Engineering major, a student must meet all university requirements for academic progress, and must earn a grade of C- or better in each of the "major requirements" courses. No "Major Requirements" course (as listed under Section II of the BS degree requirement) may be taken until the student has obtained a grade of C- or better in each of the prerequisites (if a higher grade requirement is stated for a specific class, the higher requirement applies).

Bachelor of Science in Computer Engineering

Degree Requirements (126 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

   Communication: 6 semester credit hours
   - RHET 1302 Rhetoric
   - ECS 3390 Professional and Technical Communication

   Mathematics: 3 semester credit hours
   - MATH 2417 Calculus I

   Life and Physical Sciences: 6 semester credit hours
   - PHYS 2325 Mechanics
   - PHYS 2326 Electromagnetism and Waves

   Language, Philosophy and Culture: 3 semester credit hours
   Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

   Creative Arts: 3 semester credit hours
   Select any 3 semester credit hours from Creative Arts core courses (see advisor)
American History: 6 semester credit hours
Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours
- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
- ECS 3361 Social Issues and Ethics in Computer Science and Engineering

Component Area Option: 6 semester credit hours
- MATH 2417 Calculus I
- MATH 2419 Calculus II
- PHYS 2125 Physics Laboratory

II. Major Requirements: 77 semester credit hours

Major Preparatory Courses: 24 semester credit hours including 5 listed above in Core Curriculum
- CE 1100 Introduction to Computer Engineering
- CE 1202 Introduction to Electrical Engineering II
- CE 1337 Computer Science I
- ECS 1100 Introduction to Engineering and Computer Science
- ENGR 2300 Linear Algebra for Engineers
- CE 2305 Discrete Mathematics for Computing I
- CE 2310 Introduction to Digital Systems
- CE 2336 Computer Science II
- MATH 2417 Calculus I
- MATH 2419 Calculus II
- MATH 2420 Differential Equations with Applications
- PHYS 2125 Physics Laboratory I
- PHYS 2126 Physics Laboratory II
- PHYS 2325 Mechanics
- PHYS 2326 Electromagnetism and Waves

Major Core Courses: 53 semester credit hours beyond Core Curriculum
- CE 3101 Electrical Network Analysis Laboratory
III. Elective Requirements: 7 semester credit hours

Free Electives: 7 semester credit hours

Both lower-and upper-division courses may count as free electives, but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

Degree programs in the Erik Jonsson School of Engineering and Computer Science are governed by various accreditation boards that place restrictions on classes used to meet the curricular requirements of degrees they certify. For this reason, not all classes offered by the university can be used to meet elective requirements. Please check with your academic advisor before enrolling in classes you hope to use as free electives.
### Fast Track Baccalaureate/Master's Degrees

In response to the need for advanced education in computer engineering, a Fast Track program is available to well-qualified UT Dallas undergraduate students. Qualified seniors may take up to 15 graduate semester credit hours that may be used to complete the baccalaureate degree and also to satisfy the requirements for the master's degree. The Fast Track program is designed to accelerate a student's education so that both a BSCE and an MSCE degree can be earned in five years of full-time study. This is accomplished by (1) taking courses (typically electives) during one or more summer semesters, and (2) beginning graduate coursework during the senior year. Details are available from the Associate Dean for Undergraduate Education.

### Honors Program

The Computer Engineering Program offers Departmental Honors for outstanding students in the BS Computer Engineering degree program. Admission to the Honors programs requires that the student meet the following qualifications:

- Has repeated no more than 3 courses at UT Dallas and has repeated no course more than once.
- Graduation with Honors requires a 3.500 or better GPA and completion of either Senior Honors in Computer Engineering (CE 4399) or Undergraduate Research in Computer Engineering (CE 4V98). A Senior Honors Thesis must be completed within one of those two classes. (While the topics may be related, the Senior Thesis does not replace the need for the student to complete a regular Senior Design Project).

Departmental Honors with Distinction may be awarded to students whose Senior Honors Thesis is judged by a faculty committee to be of exemplary quality. Only students graduating with Departmental Honors are eligible. Thesis/projects must be submitted by the deadline that applies to MS Theses in the graduating semester to allow for proper evaluation. Students interested in Honors with Distinction are encouraged to start working on their thesis/project a year prior to graduation.

### Minors

The School of Engineering and Computer Science does not offer a minor in Computer Engineering at this time.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.
2. Curriculum Requirements can be fulfilled by other approved courses. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.
3. Semester credit hours fulfill the communication component of the Core Curriculum.
4. Three semester credit hours of Calculus are counted under Mathematics Core, and five semester credit hours of Calculus are counted as Component Area Option Core.

5. Six semester credit hours of Physics are counted under Science core, and one semester credit hour of Physics HYS 2125 is counted as Component Area Option Core.

6. Semester credit hours contribute to the Social and Behavioral Sciences component of the Core Curriculum.

7. Transfer students with sufficient background may petition to substitute upper-division semester credit hours in the major for this class.

Updated: September 4, 2014 - Visitor: 1044
Erik Jonsson School of Engineering and Computer Science

Department of Computer Science

Computer Science (BS) and Software Engineering (BS)

The Computer Science Department offers the BS degree in Computer Science and the BS degree in Software Engineering. Both are based on a solid foundation of mathematics, including calculus, and discrete mathematics. These programs of study are designed to offer students opportunities to prepare for an industrial, business, or governmental career in a rapidly changing profession and to prepare for graduate study in a field in which further education is strongly recommended. The two programs have the same basis in core computer science, including the analysis of algorithms and data structures, modern programming methodologies, and the study of operating systems. The Computer Science program continues with courses in advanced data structures, programming languages, telecommunications networks, and automata theory, while the Software Engineering program includes courses in requirements engineering, software validation and testing, and software architecture, culminating in a challenging project course in which students must demonstrate use of software engineering techniques. Both programs offer a rich choice of elective studies, including courses in artificial intelligence, computer graphics, and compiler design.

The school offers a "fast track" BS / MS option; see Fast Track Baccalaureate/Master's Degree Program.

Faculty


Professor Emeritus: Klaus Truemper

Research Professors: Ron Bose

Associate Professors: Sergey Bereg, Lawrence Chung, Jorge A. Cobb, Kendra M. L. Cooper, Xiaohu Guo, Kevin Hamlen, Murali Kankarliglu, Yang Liu, Andrian Marcus, Neeraj Mittal, Yu-Chung (Vincent) Ng, Kamil Sarac, Haim Schweitzer, Rym Zalila-Wenkstern

Assistant Professors: Alvaro Cárdenas, Vibhav Gogate, Zhiqiang Lin, Cong Liu, Ryan McMahan, Nicholas Ruozzi, Lingming Zhang

Senior Lecturers: Mehr Borazjany, Ebru Cankaya, Michael Christiansen, John Cole, Chris I. Davis, Timothy
Mission of the Department of Computer Science

The mission of the Department of Computer Science is to prepare undergraduate and graduate students for productive careers in industry, academia, and government by providing an outstanding environment for teaching, learning, and research in the theory and applications of computing. The Department places high priority on establishing and maintaining innovative research programs to enhance its education quality and make it an important regional, national, and international resource center for discovering, integrating and applying new knowledge and technologies.

Bachelor of Science in Computer Science (BS)

Goals for the Computer Science Program

The undergraduate Computer Science program is committed to provide students with a high-quality education and prepare them for long and successful careers in industry and government.

Our graduates, while eminently ready for immediate employment, will also be fully ready for focused training as required for specific positions in Computer Science and closely related areas. Graduates interested in highly technical careers, research, and/or academia will be fully prepared to further their education in graduate school.

Program Educational Objectives for Computer Science

Within a few years after graduation, graduates of the Computer Science program should:

- Have a successful, long-lived, computer science based career path.
- Meet the needs of industry or academia.
- Contribute to, and/or lead, computer science based teams.
- Actively pursue continuing (lifelong) learning.

ABET Accreditation

The BS program in Computer Science is accredited by the Computing Accreditation Commission of ABET, www.abet.org.
Degree Requirements (124 semester credit hours)\(^1\)

I. Core Curriculum Requirements: 42 semester credit hours\(^2\)

Communication: 6 semester credit hours

- RHET 1302 Rhetoric
- ECS 3390 Professional and Technical Communication\(^3\)

Mathematics: 3 semester credit hours

- MATH 2413 Differential Calculus\(^4\)
  
  or MATH 2417 Calculus I\(^4\)

Life and Physical Sciences: 6 semester credit hours\(^5\)

- PHYS 2325 Mechanics
- PHYS 2326 Electromagnetism and Waves

Language, Philosophy and Culture: 3 semester credit hours

Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours

Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours

- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

- ECS 3361 Social Issues and Ethics in Computer Science and Engineering\(^6\)

Component Area Option: 6 semester credit hours

- MATH 2413 Differential Calculus\(^5\)
  
  or MATH 2417 Calculus I\(^5\)
- MATH 2419 Calculus II\(^5\)
- PHYS 2125 Physics Laboratory\(^5\)
II. Major Requirements: 71 semester credit hours

Major Preparatory Courses: 20 semester credit hours beyond Core Curriculum

ECS 1100 Introduction to Engineering and Computer Science
CS 1200 Introduction to Computer Science and Software Engineering
CS 1337 Computer Science I
CS 2305 Discrete Mathematics for Computing I
CS 2336 Computer Science II
MATH 2413 Differential Calculus
or MATH 2417 Calculus I
MATH 2418 Linear Algebra
MATH 2414 Integral Calculus
or MATH 2419 Calculus II
PHYS 2125 Physics Laboratory I
PHYS 2126 Physics Laboratory II
PHYS 2325 Mechanics
PHYS 2326 Electromagnetism and Waves
3 semester credit hours Science Elective

Major Core Courses: 42 semester credit hours beyond Core Curriculum

CS 3162 Professional Responsibility in Computer Science and Software Engineering
CS 3305 Discrete Mathematics for Computing II
CS 3340 Computer Architecture
CS 3341 Probability and Statistics in Computer Science and Software Engineering
CS 3345 Data Structures and Introduction to Algorithmic Analysis
CS 3354 Software Engineering
CS 3376 C/C++ Programming in a UNIX Environment
ECS 3361 Social Issues and Ethics in Computer Science and Engineering
ECS 3390 Professional and Technical Communication
CS 4141 Digital Systems Laboratory
CS 4337 Organization of Programming Languages
CS 4341 Digital Logic and Computer Design
CS 4347 Database Systems
CS 4348 Operating Systems Concepts
CS 4349 Advanced Algorithm Design and Analysis
CS 4384 Automata Theory
CS 4485 Computer Science Project

Major Guided Electives: 9 semester credit hours

CS guided electives are 4000 level CS courses approved by the student’s CS advisor. The following courses may be used as guided electives without the explicit approval of an advisor:

CS 4314 Intelligent Systems Analysis
CS 4315 Intelligent Systems Design
CS 4334 Numerical Analysis
CS 4336 Advanced Java
CS 4352 Human Computer Interactions I
CS 4353 Human Computer Interactions II
CS 4361 Computer Graphics
CS 4365 Artificial Intelligence
CS 4375 Introduction to Machine Learning
CS 4376 Object-Oriented Programming Systems
CS 4386 Compiler Design
CS 4389 Data and Applications Security
CS 4390 Computer Networks
CS 4391 Introduction to Computer Vision
CS 4392 Computer Animation
CS 4393 Computer and Network Security
CS 4394 Implementation of Modern Operating Systems
CS 4395 Human Language Technologies
CS 4396 Networking Laboratory
CS 4397 Embedded Computer Systems
CS 4398 Digital Forensics
CS 4399 Senior Honors in Computer Science
EE 4325 Introduction to VLSI Design
SE 4351 Requirements Engineering
SE 4352 Software Architecture and Design

Deleted: CS 4347 or SE 4347 Database Systems
SE 4367 Software Testing, Verification, Validation and Quality Assurance  
SE 4381 Software Project Planning and Management  
SE 4485 Software Engineering Project

III. Elective Requirements: 11 semester credit hours

Free Electives: 11 semester credit hours

Both lower- and upper-division courses may count as free electives but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

Degree programs in the Erik Jonsson School of Engineering and Computer Science are governed by various accreditation boards that place restrictions on classes used to meet the curricular requirements of degrees they certify. For this reason, not all classes offered by the university can be used to meet elective requirements. Please check with your academic advisor before enrolling in classes you hope to use as free electives.

Fast Track Baccalaureate/Master's Degrees

In response to the need for post-baccalaureate education in the exciting field of computer science, a Fast Track program is available to well-qualified UT Dallas undergraduate students. At the end of five years of successful study, it is possible to earn both the BS in Computer Science (or MS in Software Engineering). Qualified seniors may take up to 15 graduate semester credit hours that may be used to complete the baccalaureate degree and also to satisfy requirements for the master's degree. Interested students should see the Associate Dean of Undergraduate Education (ADU) for specific requirements.

Honors Programs

The Department of Computer Science offers two Honors Programs. The first program is an upper-division honors program for outstanding students in the BS in Computer Science and BS in Software Engineering degree programs. This Honors program offers special sections of designated classes and other activities designed to enhance the educational experience of exceptional students. Admission to this Honors program requires a 3.500 or better GPA (grade point average) in at least 30 semester credit hours of coursework. Graduation with Honors requires a 3.500 or better GPA and completion of at least 6 honors classes, including a Senior Thesis or Senior Design Project class. For more details, contact the Office of Undergraduate Advising (ECS South 2.502; 972-883-2004). Departmental Honors with Distinction may be awarded to students whose Senior Thesis or Senior Design Project is judged by a faculty committee to be of exemplary quality. Only students graduating with Departmental Honors are eligible. Thesis/projects must be submitted by the deadline that applies to MS Theses and PhD Dissertations in the graduating semester to allow for proper evaluation. Students interested in Honors with Distinction are encouraged to start working on their thesis/project a year prior to graduation.

The second program, called Computer Science Computing Scholars (CS2), is an intense Bachelor of Science in Computer Science Degree Program created for exceptionally gifted students who wish to pursue a demanding course of study enriched throughout with research experiences. The Computing Scholars Program has a specially designed curriculum. Courses integrate discussion of current research, recent discoveries, and open problems into a rich logical progression of firmly related topics. Course numbers for the Core Curriculum Requirements and Major Requirements are the same as those for the Bachelor of Science in Computer Science, but Computing Scholars take honors versions of the following courses: ECS 1100, CS 2305, CS 3305, CS 3340, CS 3341, CS 3345, CS 3354, CS 4141, CS 4337, CS 4341, CS 4348, CS 4349, CS 4384, and CS 4485.

Admission to the program is mainly by nomination and invitation. Those invited to join the Computing Scholars Honors Program will have successfully completed a full and challenging high school curriculum, will have achieved high scores on the SAT or ACT tests, and will be about to graduate from high school, or equivalent, with high class rank.

Successful participants will graduate with the added distinction of a Computing Scholars Honors Diploma.
For more information about this program students should contact the Computer Science Department leadership.

**Certificates**

A Certificate in Information Assurance can be obtained by completing the following (as well as any required prerequisites):

- **CS 4389** Data and Applications Security
- **CS 4393** Computer and Network Security
- **CS 4398** Digital Forensics

The certificate is intended for those individuals who are working in the industry and who already have background similar to a BS degree. CS and SE majors that complete the required classes, as well as students that complete the Minor in Information Assurance will be awarded certificates in Information Assurance.

1. **Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.**

2. Curriculum Requirements can be fulfilled by other approved courses. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. Semester credit hours fulfill the communication component of the Core Curriculum.

4. Three semester credit hours of Calculus are counted under Mathematics Core, and five semester credit hours of Calculus are counted as Component Area Option Core.

5. Six semester credit hours of Physics are counted under Science core, and one semester credit hour of Physics (PHYS 2125) is counted as Component Area Option Core.

6. Semester credit hours contribute to the Social and Behavioral Sciences component of the Core Curriculum.

7. Transfer students with sufficient background may petition to substitute upper-division semester credit hours in the major for this class.

Updated: September 4, 2014 - Visitor: 2350
Erik Jonsson School of Engineering and Computer Science

Department of Electrical Engineering

Electrical Engineering (BSEE)

The Electrical Engineering Department offers a bachelor's degree in Electrical Engineering. The Electrical Engineering program offers students an opportunity to acquire a solid foundation in the broad areas of electrical engineering and emphasizes advanced study in digital systems, digital signal processing, communications, analog systems, RF/microwave, and microelectronics.

The Electrical Engineering program offers students a solid educational foundation in the areas of electrical networks, electronics, electromagnetics, computers, digital systems, and communications and is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). Mastery of these areas provides students with the ability to adapt and maintain leadership roles in their post-baccalaureate pursuits through the application of fundamental principles to a rapidly changing and growing discipline.

Students in the Electrical Engineering program a broad general program in electrical engineering and can then take advanced courses in computer hardware and software; the analysis and design of analog and digital communication systems; analog and digital signal processing; the analysis, design, and fabrication of microelectronic components and systems; and guided and unguided wave propagation. A broad choice of electives (within and external to electrical engineering) allows students to broaden their education as well as develop expertise in areas of particular interest. In keeping with the role of a professional, students are expected to develop communication skills and an awareness of the relationship between technology and society.

The Electrical Engineering program is based on a solid foundation of science and mathematics coursework. Students in this program are given an opportunity to learn and extend their abilities to analyze and solve complex problems and to design new uses of technology to serve today’s society. The engineering programs at UT Dallas provide an integrated educational experience directed toward the development of the ability to apply pertinent knowledge to the identification and solution of practical problems in Electrical and other related engineering fields. These programs ensure that the design experience, which includes both analytical and experimental studies, is integrated throughout the curriculum in a sequential development leading to advanced work. Design problems are frequently assigned in both lecture and laboratory courses. Each student is required to complete a major design project during the senior year. In addition, established cooperative education programs with area industry serve to further supplement design experiences.

Faculty

Mission of the Electrical Engineering Program

The focus of the Electrical Engineering degree is to provide excellent education in modern electrical engineering practice. Our graduates are uniquely qualified for rewarding and successful careers in materials, devices, circuits, digital systems, signal processing, and communications. In the spring of 2005 the EE faculty adopted a new set of Program Educational Objectives that refined the prior objectives and established measurements and benchmarks to monitor progress. A feedback mechanism using Alumni Surveys (by the ECS Office of Assessment) and other tools are used to measure progress toward these objectives.

Program Educational Objectives for Electrical Engineering

One broad goal for the Erik Jonsson School is an excellent education for our students.

Within a few years of graduation, graduates of the Electrical Engineering program should:

- Have a successful, long-lived engineering based career path.
- Meet the needs of industry.
- Contribute to, and/or lead engineering based teams.
- Actively pursue continuing (lifelong) learning.
High School Preparation

Engineering education requires a strong high school preparation. Pre-engineering students should have high school preparation of at least one-half year in trigonometry and at least one year each in elementary algebra, intermediate and advanced algebra, plane geometry, chemistry, and physics, thus developing their competencies to the highest possible levels and preparing to move immediately into demanding college courses in calculus, calculus-based physics, and chemistry for science majors. It is also essential that pre-engineering students have the competence to read rapidly and with comprehension, and to write clearly and correctly.

Lower-Division Study

All lower-division students in Electrical Engineering concentrate on mathematics, science, and introductory engineering courses, building competence in these cornerstone areas for future application in upper-division engineering courses. The following requirements apply both to students seeking to transfer to UT Dallas from other institutions as well as to those currently enrolled at UT Dallas, whether in another school or in the Erik Jonsson School of Engineering and Computer Science.

ABET Accreditation

The BS program in Electrical Engineering is accredited by the Engineering Accreditation Commission of ABET, www.abet.org.

Academic Progress in Electrical Engineering

In order to make satisfactory academic progress as an Electrical Engineering major, a student must meet all university requirements for academic progress, and must earn a grade of C- or better in each of the "major requirements" courses. No "Major Requirements" course (as listed under Section II of the BSEE degree requirement) may be taken until the student has obtained a grade of C- or better in each of the prerequisites (if a higher grade requirement is stated for a specific class, the higher requirement applies).

Bachelor of Science in Electrical Engineering

Degree Requirements (128 semester credit hours)\(^1\)

I. Core Curriculum Requirements: 42 semester credit hours\(^2\)

Communications: 6 semester credit hours

- RHET 1302 Rhetoric
- ECS 3390 Professional and Technical Communication\(^3\)

Mathematics: 3 semester credit hours

- MATH 2417 Calculus I\(^4\)
Life and Physical Sciences: 6 semester credit hours

- PHYS 2325 Mechanics
- PHYS 2326 Electromagnetism and Waves

Language, Philosophy and Culture: 3 semester credit hours

Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours

Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours

- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

- ECS 3361 Social Issues and Ethics in Computer Science and Engineering

Component Area Option: 6 semester credit hours

- MATH 2417 Calculus I
- MATH 2419 Calculus II
- PHYS 2125 Physics Laboratory

II. Major Requirements: 76 semester credit hours

Major Preparatory Courses: 22 semester credit hours beyond Core Curriculum

- CHEM 1111 General Chemistry Laboratory I
- CHEM 1311 General Chemistry I
- CS 1325 Introduction to Programming
- EE 1100 Introduction to Electrical Engineering
- ECS 1100 Introduction to Engineering and Computer Science
- EE 1202 Introduction to Electrical Engineering II
- ENGR 2300 Linear Algebra for Engineers
- EE 2310 Introduction to Digital Systems

Deleted: 6
Deleted: 2
Deleted: 1
Deleted: ECS 1200
Deleted: EE 1202
Deleted: Engineering
MATH 2417 Calculus I
MATH 2419 Calculus II
MATH 2420 Differential Equations with Applications

PHYS 2125 Physics Laboratory I
PHYS 2126 Physics Laboratory II
PHYS 2325 Mechanics
PHYS 2326 Electromagnetism and Waves

Major Core Courses: 45 semester credit hours beyond Core Curriculum

ECS 3361 Social Issues and Ethics in Computer Science and Engineering
ECS 3390 Professional and Technical Communication
EE 3101 Electrical Network Analysis Laboratory
EE 3102 Signals and Systems Laboratory
EE 3110 Electronic Devices Laboratory
EE 3111 Electronic Circuits Laboratory
EE 3120 Digital Circuits Laboratory
EE 3150 Communications Systems Laboratory
ENGR 3300 Advanced Engineering Mathematics
EE 3301 Electrical Network Analysis
EE 3302 Signals and Systems
EE 3310 Electronic Devices
EE 3311 Electronic Circuits
EE 3320 Digital Circuits
ENGR 3341 Probability Theory and Statistics
EE 3350 Communications Systems
EE 4301 Electromagnetic Engineering I
EE 4310 Systems and Controls
EE 4368 RF Circuit Design Principles
EE 4388 Senior Design Project I
EE 4389 Senior Design Project II
Major Guided Electives: 9 semester credit hours

Students pursuing the general program take 9 semester credit hours from any other 4000 level or higher Electrical Engineering courses. Independent Study in Electrical Engineering (EE 4V97), Undergraduate Research in Electrical Engineering (EE 4V98), or Senior Honors in Electrical Engineering (EE 4399) may be used for up to 6 of these hours.

Students pursuing a concentration in Microelectronics take 3 of the following courses:

- EE 4302 Electromagnetic Engineering II
- EE 4304 Computer Architecture
- EE 4325 Introduction to VLSI Design
- EE 4330 Integrated Circuit Technology
- EE 4340 Analog Integrated Circuit Analysis and Design
- EE 4391 Technology of Plasma

Students pursuing a concentration in Telecommunications take 3 of the following courses:

- EE 4360 Digital Communications
- EE 4361 Introduction to Digital Signal Processing
- EE 4365 Introduction to Wireless Communication
- EE 4367 Telecommunications Networks
- EE 4390 Computer Networks
- EE 4392 Introduction to Optical Systems

III. Elective Requirements: 10 semester credit hours

Free Electives: 10 semester credit hours

Both lower- and upper-division courses may count as free electives but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

Degree programs in the Erik Jonsson School of Engineering and Computer Science are governed by various accreditation boards that place restrictions on classes used to meet the curricular requirements of degrees they certify. For this reason, not all classes offered by the university can be used to meet elective requirements. Please check with your academic advisor before enrolling in classes you hope to use as free electives.

Fast Track Baccalaureate/Master's Degrees

In response to the need for advanced education in electrical engineering, a Fast Track program is available to well-qualified UT Dallas undergraduate students. Qualified seniors may take up to 15 graduate semester credit hours that may be used to complete the baccalaureate degree and also to satisfy the...
requirements for the master's degree. The Fast Track program is designed to accelerate a student's education so that both a BSEE and an MSEE degree can be earned in five years of full-time study. This is accomplished by (1) taking courses (typically electives) during one or more summer semesters, and (2) beginning graduate coursework during the senior year. Details are available from the Associate Dean for Undergraduate Education.

Honors Program

The Department of Electrical Engineering offers Departmental Honors for outstanding students in the BS Electrical Engineering degree program. Admission to the Honors programs requires that the student meet the following qualifications:

• Has repeated no more than 3 courses at UT Dallas and has repeated no course more than once.

Graduation with Honors requires a 3.500 or better GPA and completion of either Senior Honors in Electrical Engineering (EE 4399) or Undergraduate Research in Electrical Engineering (EE 4V98). A Senior Honors Thesis must be completed within one of those two classes. (While the topics may be related, the Senior Thesis does not replace the need for the student to complete a regular Senior Design Project).

Departmental Honors with Distinction may be awarded to students whose Senior Honors Thesis is judged by a faculty committee to be of exemplary quality. Only students graduating with Departmental Honors are eligible. Thesis/projects must be submitted by the deadline that applies to MS Theses in the graduating semester to allow for proper evaluation. Students interested in Honors with Distinction are encouraged to start working on their thesis/project a year prior to graduation.

Minors

The Department of Electrical Engineering does not offer minors at this time.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. Semester credit hours fulfill the communication component of the Core Curriculum.

4. Three semester credit hours of Calculus are counted under Mathematics Core, and five semester credit hours of Calculus are counted as Component Area Option Core.

5. Six semester credit hours of Physics (PHYS 2325 and PHYS 2326) are counted under Science Core and one semester credit hour (PHYS 2125) is counted under the Component Area Option Core.

6. Semester credit hours contribute to the Social and Behavioral Sciences component of the Core Curriculum.

7. Students must pass each of the EE, CS, Math and Science courses listed in this degree plan and each of their prerequisites, with a grade of C- or better.

8. Transfer students with sufficient background may petition to substitute upper-division semester credit hours in the major for this class.
Erik Jonsson School of Engineering and Computer Science

Department of Mechanical Engineering

Faculty

Professors: Hongbing Lu, Reza Moheimani, Mario A. Rotea, Seung M. You
Professor Emeritus: Louis R. Hunt

Associate Professors: Stefano Leonardi, Yaoyu Li, Dong Qian

Assistant Professors: William Anderson, Wonjae Choi, Robert D. Gregg, Fatemeh Hassanipour, Giacomo (Valerio) Iungo, Ann Majewicz, Majid Minary, Wooram Park, Zhenpeng Qin, Yonas Tadesse, Walter E. Voit

Visiting Assistant Professors: Turaj Ashuri

Senior Lecturers: Terry V. Baughn, Robert Hart, James Hilkert, Oziel Rios, P.L. Stephan Thamban


Overview

The objective of the Bachelor of Science degree program in Mechanical Engineering is to produce Mechanical Engineering graduates who will be capable of undertaking challenging projects that require knowledge of the fundamentals and design of mechanical and thermal systems. The program seeks to build Mechanical Engineers to meet the needs of analysis, design, and development in industry, as well as to educate them to be innovators and policy makers. The BS degree program will provide the necessary training and education for future engineers who will effectively identify new problems and develop innovative solutions, including new manufacturing and fabrication technologies.

Mechanical Engineering (BS)

Program Educational Objectives for Mechanical Engineering

One broad goal for the Erik Jonsson School is to provide an excellent education for our students. Within a few years after graduation, graduates of the Mechanical Engineering Program should:

- Have a successful, long-lived engineering-based career path.
• Meet the needs of industry.
• Contribute to, and lead, engineering-based teams.
• Actively pursue life-long learning.

High School Preparation
Engineering education requires a strong high school preparation. Pre-engineering students should have high school preparation of at least one-half year in trigonometry and at least one year in elementary algebra, intermediate and advanced algebra, geometry, pre-calculus, chemistry, and physics, thus developing their competencies to the highest possible levels and preparing to move immediately into demanding college courses in calculus, calculus-based physics, and chemistry for science majors. It is also essential that pre-engineering students have the competence of reading comprehension, and to write logically, clearly and correctly.

ABET Accreditation
The BS program in Mechanical Engineering is accredited by the Engineering Accreditation Commission of ABET, www.abet.org.

Lower-Division Study
All lower-division students in Mechanical Engineering concentrate on mathematics, science, and introductory engineering courses, building competence in these cornerstone areas for future application in upper-division engineering courses. The following requirements apply both to students seeking to transfer to UT Dallas from other institutions as well as to those currently enrolled at UT Dallas, whether in another school or in the Erik Jonsson School of Engineering and Computer Science.

Academic Progress in Mechanical Engineering
In order to make satisfactory academic progress as a Mechanical Engineering major, a student must meet all university requirements for academic progress, and must earn a grade of C- or better in each of the "major requirements" courses. No "Major Requirements" course may be taken until the student has obtained a grade of C- or better in each of the prerequisites. If a higher grade requirement is stated for a specific class, the higher requirement applies.

Bachelor of Science in Mechanical Engineering

Degree Requirements (127 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours
Communication: 6 semester credit hours

- RHET 1302 Rhetoric
- ECS 3390 Professional and Technical Communication

Mathematics: 3 semester credit hours

- MATH 2417 Calculus I

Life and Physical Sciences: 6 semester credit hours

- PHYS 2325 Mechanics
- PHYS 2326 Electromagnetism and Waves

Language, Philosophy and Culture: 3 semester credit hours

- Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours

- Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours

- Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours

- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

- ECS 3361 Social Issues and Ethics in Computer Science and Engineering

Component Area Option: 6 semester credit hours

- MATH 2417 Calculus I
- MATH 2419 Calculus II
- PHYS 2125 Physics Laboratory

II. Major Requirements: 79 semester credit hours

Major Preparatory Courses: 28 semester credit hours beyond Core Curriculum Requirements

- CHEM 1111 General Chemistry Laboratory I
- CHEM 1311 General Chemistry I
CS 1325 Introduction to Programming

ECS 1100 Introduction to Engineering and Computer Science

MATH 2417 Calculus I

MATH 2419 Calculus II

MATH 2420 Differential Equations with Applications

MECH 1100 Introduction to Mechanical Engineering

MECH 1208 Introduction to Mechanical Engineering

MECH 2120 Mechanics of Materials Laboratory

ENGR 2300 Linear Algebra for Engineers

MECH 2310 Statics

MECH 2320 Mechanics of Materials

MECH 2330 Dynamics

PHYS 2125 Physics Laboratory I

PHYS 2126 Physics Laboratory II

PHYS 2325 Mechanics

PHYS 2326 Electromagnetism and Waves

Major Core Courses: 38 semester credit hours beyond Core Curriculum Requirements

ECS 3361 Social Issues and Ethics in Computer Science and Engineering

ECS 3390 Professional and Technical Communication

MECH 3105 Computer Aided Design Laboratory

MECH 3115 Fluid Mechanics Laboratory

MECH 3120 Heat Transfer Laboratory

MECH 3150 Kinematics and Dynamics Laboratory

ENGR 3300 Advanced Engineering Mathematics

MECH 3305 Computer Aided Design

MECH 3310 Thermodynamics

MECH 3315 Fluid Mechanics

MECH 3320 Heat Transfer

ENGR 3341 Probability Theory and Statistics

MECH 3350 Kinematics and Dynamics of Mechanical Systems

MECH 3351 Design of Mechanical Systems
MECH 4110 Systems and Controls Laboratory
MECH 4310 Systems and Controls
MECH 4381 Senior Design Project I
MECH 4382 Senior Design Project II

Prescribed Electives: 12 semester credit hours

Students pursuing the general program take 12 semester credit hours from the list below:

MECH 3360 Introduction to Materials Science
MECH 3370 Applied Thermodynamics
MECH 4301 Intermediate Mechanics of Materials
MECH 4320 Applications of Computational Tools in Thermal Fluid Science
MECH 4330 Intermediate Fluid Mechanics
MECH 4340 Mechanical Vibrations
MECH 4360 Introduction to Nanostructured Materials
MECH 4370 Introduction to MEMS
MECH 4380 HVAC Systems

III. Elective Requirements: 6 semester credit hours

Free Electives: 6 semester credit hours

Both lower- and upper-division courses may count as free electives but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

Degree programs in the Erik Jonsson School of Engineering and Computer Science are governed by various accreditation boards that place restrictions on classes used to meet the curricular requirements of degrees they certify. For this reason, not all classes offered by the university can be used to meet elective requirements. Please check with your academic advisor before enrolling in classes you hope to use as free electives.

Fast Track Baccalaureate/Master's Degrees

In response to the need for advanced education in Mechanical Engineering, a Fast Track program is available to well-qualified UT Dallas undergraduate students. Qualified seniors may take up to 15 graduate semester credit hours that may be used to complete the baccalaureate degree and also to satisfy the requirements for the master's degree. The Fast Track program is designed to accelerate a student's education so that both a BS and an MS degree can be earned in five years of full-time study. This is accomplished by (1) taking courses (typically electives) during one or more summer semesters, and
(2) beginning graduate coursework during the senior year. Details are available from the Associate Dean for Undergraduate Education.

Honors Program

The Department of Mechanical Engineering offers upper-division Honors for outstanding students in the BS Mechanical Engineering degree program. This program offers special sections of designated classes and other activities designed to enhance the educational experience of exceptional students. Admission to the Honors programs requires a 3.500 or better GPA (grade point average) in at least 30 semester credit hours of coursework. Graduation with Honors requires a 3.500 or better GPA and completion of at least 6 honors classes. These honors classes must include either Senior Honors (MECH 4399) or Undergraduate Research in Mechanical Engineering (MECH 4V98) and a Senior Honors Thesis must be completed within one of those two classes. While the topics may be related, the Senior Thesis does not replace the need for the student to complete a regular Senior Design Project. The other 5 honors classes can come from a mixture of Graduate level (up to a count of 4) classes and special honor sections of regular undergraduate MECH classes (up to a count of 2).

Departmental Honors with Distinction may be awarded to students whose Senior Honors Thesis is judged by a faculty committee to be of exemplary quality. Only students graduating with Departmental Honors are eligible. Thesis/projects must be submitted by the deadline that applies to MS Theses in the graduating semester to allow for proper evaluation. Students interested in Honors with Distinction are encouraged to start working on their thesis/project a year prior to graduation.

Minors

The Department of Mechanical Engineering does not offer minors at this time.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. Three semester credit hours of Calculus are counted under Mathematics Core, and five semester credit hours of Calculus are counted as Component Area Option Core.

4. Six semester credit hours of Physics are counted under Science core, and one semester credit hour of Physics (PHYS 2125) is counted as Component Area Option Core.

5. Semester credit hours contribute to the Social and Behavioral Sciences component of the Core Curriculum.

6. Students must pass each of the "Major Requirements" courses listed in this degree plan and each of their prerequisites, with a grade of C- or better.

7. Transfer students with sufficient background may petition to substitute upper-division semester credit hours in the major for this class.
Erik Jonsson School of Engineering and Computer Science

Department of Computer Science

Computer Science (BS) and Software Engineering (BS)

Faculty


Professor Emeritus: Klaus Truemper

Research Professors: Ron Bose

Associate Professors: Sergey Bereg, Lawrence Chung, Jorge A. Cobb, Kendra M. L. Cooper, Xiaohu Guo, Kevin Hamlon, Murat Kantarcioğlu, Yang Liu, Andrian Marcus, Neeraj Mittal, Yu-Chung (Vincent) Ng, Kamil Sarac, Haim Schweitzer, Rym Zaïla-Werksman

Assistant Professors: Alvaro Cárdenas, Vibhav Gogate, Zhiqiang Lin, Cong Liu, Ryan McMahan, Nicholas Ruozzi, Lingming Zhang

Senior Lecturers: Mehran Borzajany, Ebru Cankaya, Michael Christiansen, John Cole, Chris I. Davis, Timothy (Tim) Farage, Neeraj Gupta, Shyam Karrah, Pushpa Kumar, Khiem Le, Richard Min, Linda Morales, Nhu Nguyen, Greg Ozbir, Mark Paulk, Miguel Razo-Razo, William (Bill) Semper, Charles Shields Jr., Jason W. Smith, Janell Straach, Jayakesavan (Jey) Veerasamy, Don G. Vogel, Nurcan Yuruk

Affiliated Faculty: Milind Dawande, Eakta Jain

The Computer Science Department offers the BS degree in Computer Science and the BS degree in Software Engineering. Both are based on a solid foundation of mathematics, including calculus, linear algebra, and discrete mathematics. These programs of study are designed to offer students opportunities to prepare for an industrial, business, or governmental career in a rapidly changing profession and to prepare for graduate study in a field in which further education is strongly recommended. The two programs have the same basis in core computer science, including the analysis of algorithms and data structures, modern programming methodologies, and the study of operating systems. The Computer Science program continues with courses in advanced data structures, programming languages, telecommunications networks,
Software Engineering (BS)

Goals of the Software Engineering Program
The focus of the Software Engineering degree is to provide world class education in modern software engineering. The overall goals of the Bachelor of Science in Software Engineering Program are:

- To prepare students for software engineering positions in industry or government.
- To prepare students for graduate study in Software Engineering.
- To provide a solid foundation in Computer Science and Software Engineering principles that will allow graduates to adapt effectively in a quickly changing field.

Program Educational Objectives for Software Engineering
Within a few years after graduation, graduates of the Software Engineering Program should:

- Have a successful, long-lived, software engineering based career path.
- Meet the needs of industry or academia.
- Contribute to, and/or lead, software engineering based teams.
- Actively pursue continuing (lifelong) learning.

ABET Accreditation
The BS program in Software Engineering is accredited by the Engineering Accreditation Commission of ABET, www.abet.org.
Bachelor of Science in Software Engineering

Degree Requirements (123 semester-credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours
- RHET 1302 Rhetoric
- ECS 3390 Professional and Technical Communication

Mathematics: 3 semester credit hours
- MATH 2413 Differential Calculus
- or MATH 2417 Calculus I

Life and Physical Sciences: 6 semester credit hours
- PHYS 2325 Mechanics
- PHYS 2326 Electromagnetism and Waves

Language, Philosophy and Culture: 3 semester credit hours
Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours
Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours
Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours
- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
- ECS 3361 Social Issues and Ethics in Computer Science and Engineering

Component Area Option: 6 semester credit hours
- MATH 2417 Calculus I
- MATH 2419 Calculus II
- PHYS 2125 Physics Laboratory

Comment [MV1]: Should we also list "or MATH 2417 Integral Calculus" here to match the prep course listing below?
II. Major Requirements: **73** semester credit hours

Major Preparatory Courses: 20 semester credit hours beyond Core Curriculum

- **ECS 1100** Introduction to Engineering and Computer Science
- **CS 1200** Introduction to Computer Science and Software Engineering
- **CS 1337** Computer Science I
- **CS 2305** Discrete Mathematics for Computing I
- **CS 2336** Computer Science II
- **MATH 2413** Differential Calculus
  - or **MATH 2417** Calculus I
- **MATH 2418** Linear Algebra
- **MATH 2414** Integral Calculus
  - or **MATH 2419** Calculus II
- **PHYS 2125** Physics Laboratory I
- **PHYS 2126** Physics Laboratory II
- **PHYS 2325** Mechanics
- **PHYS 2326** Electromagnetism and Waves
  - 3 semester credit hours Science Elective

Major Core Courses: **41** semester credit hours beyond Core Curriculum

- **SE 3162** Professional Responsibility in Computer Science and Software Engineering
- **SE 3306** Mathematical Foundations of Software Engineering
- **SE 3340** Computer Architecture
- **SE 3341** Probability and Statistics in Computer Science and Software Engineering
- **CS 3345** Data Structures and Introduction to Algorithmic Analysis
- **CS 3354** Software Engineering
- **ECS 3361** Social Issues and Ethics in Computer Science and Engineering
- **SE 3376** C/C++ Programming in a UNIX Environment
- **ECS 3390** Professional and Technical Communication
- **SE 4347** Database Systems
- **CS 4348** Operating Systems Concepts
- **SE 4351** Requirements Engineering
** majors

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE 4352</td>
<td>Software Architecture and Design</td>
</tr>
<tr>
<td>SE 4367</td>
<td>Software Testing, Verification, Validation and Quality Assurance</td>
</tr>
<tr>
<td>SE 4381</td>
<td>Software Project Planning and Management</td>
</tr>
<tr>
<td>SE 4485</td>
<td>Software Engineering Project</td>
</tr>
</tbody>
</table>

** Major Guided Electives: 12 semester credit hours**

SE guided electives are 4000 level CS/SE courses approved by the student's CS/SE advisor. The following courses may be used as guided electives without the explicit approval of an advisor:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 4141</td>
<td>Digital Systems Laboratory</td>
</tr>
<tr>
<td>CS 4314</td>
<td>Intelligent Systems Analysis</td>
</tr>
<tr>
<td>CS 4315</td>
<td>Intelligent Systems Design</td>
</tr>
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<td>CS 4334</td>
<td>Numerical Analysis</td>
</tr>
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<td>CS 4337</td>
<td>Organization of Programming Languages</td>
</tr>
<tr>
<td>CS 4341</td>
<td>Digital Logic and Computer Design</td>
</tr>
<tr>
<td>CS 4349</td>
<td>Advanced Algorithm Design and Analysis</td>
</tr>
<tr>
<td>CS 4352</td>
<td>Human Computer Interactions I</td>
</tr>
<tr>
<td>CS 4353</td>
<td>Human Computer Interactions II</td>
</tr>
<tr>
<td>CS 4361</td>
<td>Computer Graphics</td>
</tr>
<tr>
<td>CS 4365</td>
<td>Artificial Intelligence</td>
</tr>
<tr>
<td>CS 4375</td>
<td>Introduction to Machine Learning</td>
</tr>
<tr>
<td>CS 4384</td>
<td>Automata Theory</td>
</tr>
<tr>
<td>CS 4386</td>
<td>Compiler Design</td>
</tr>
<tr>
<td>CS 4389</td>
<td>Data and Applications Security</td>
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<tr>
<td>CS 4390</td>
<td>Computer Networks</td>
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<tr>
<td>CS 4391</td>
<td>Introduction to Computer Vision</td>
</tr>
<tr>
<td>CS 4392</td>
<td>Computer Animation</td>
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<tr>
<td>CS 4393</td>
<td>Computer and Network Security</td>
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<tr>
<td>CS 4394</td>
<td>Implementation of Modern Operating Systems</td>
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<tr>
<td>CS 4395</td>
<td>Human Language Technologies</td>
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<tr>
<td>CS 4396</td>
<td>Networking Laboratory</td>
</tr>
<tr>
<td>CS 4397</td>
<td>Embedded Computer Systems</td>
</tr>
<tr>
<td>CS 4398</td>
<td>Digital Forensics</td>
</tr>
<tr>
<td>CS 4485</td>
<td>Computer Science Project</td>
</tr>
</tbody>
</table>
Application Domains: 9 semester credit hours

An important aspect of Software Engineering education is the use of software engineering concepts in a particular application domain. Students should use two or three of their guided electives to complete one of the applications domains below. Additional application domains may become available. Completing an application domain may require careful scheduling since many of these classes will not be offered every semester. It is strongly encouraged that you consult with an advisor. Courses in each of the domain can be substituted by other appropriate elective courses offered in a particular semester with consent of the Computer Science Department.

Networks: 9 semester credit hours

- CS 4390 Computer Networks
- CS 4393 Computer and Network Security
- CS 4396 Networking Laboratory

Information Assurance: 9 semester credit hours

- CS 4389 Data and Applications Security
- CS 4393 Computer and Network Security
- CS 4398 Digital Forensics

Embedded Systems: 9 semester credit hours

- CS 4141 Digital Systems Laboratory
- CS 4341 Digital Logic and Computer Design
- CS 4397 Embedded Computer Systems
- CS 4348 Operating Systems Concepts

Computer Imaging: 9 semester credit hours

- CS 4361 Computer Graphics
- CS 4391 Introduction to Computer Vision
- CS 4392 Computer Animation

Artificial Intelligence and Cognitive Modeling: 9 semester credit hours; take 3 of 5

- CS 4314 Intelligent Systems Analysis
- CS 4315 Intelligent Systems Design
III. Elective Requirements: 8 semester credit hours

Free Electives: 8 semester credit hours

All students must accumulate at least 123 semester credit hours of university credit to graduate. Both lower- and upper-division courses may count as free electives but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

Degree programs in the Erik Jonsson School of Engineering and Computer Science are governed by various accreditation boards that place restrictions on classes used to meet the curricular requirements of degrees they certify. For this reason, not all classes offered by the university can be used to meet elective requirements. Please check with your academic advisor before enrolling in classes you hope to use as free electives.

Fast Track Baccalaureate/Master's Degrees

In response to the need for post-baccalaureate education in the exciting field of software engineering, a Fast Track program is available to well-qualified UT Dallas undergraduate students. At the end of five years of successful study, it is possible to earn both the BS degree in Software Engineering and the MS degree in Computer Science or the MS degree in Software Engineering. Qualified seniors may take up to 15 graduate semester credit hours that may be used to complete the baccalaureate degree and also to satisfy the requirements for the master's degree. Interested students should see the Associate Dean of Undergraduate Education (ADU) for specific requirements.

Interested students should see the Associate Dean of Undergraduate Education (ADU) for specific admission requirements to the Fast Track program.

Honors Programs
The Department of Computer Science offers an Honors Program called Computer Science Computing Scholars (CS2). (CS2) is an intense Bachelor of Science in Computer Science Degree Program created for exceptionally gifted students who wish to pursue a demanding course of study enriched throughout with research experiences. The Computing Scholars Program has a specially designed curriculum. Courses integrate discussion of current research, recent discoveries, and open problems into a rich logical progression of firmly related topics. Course numbers for the Core Curriculum Requirements and Major Requirements are the same as those for the Bachelor of Science in Computer Science, but Computing Scholars take honors versions of the following courses: ECS 1100, CS 2305, CS 3305, CS 3340, CS 3341, CS 3345, CS 3354, CS 4141, CS 4337, CS 4341, CS 4348, CS 4349, CS 4384, CS 4485.

Admission to the program is mainly by nomination and invitation. Those invited to join the Computing Scholars Honors Program will have successfully completed a full and challenging high school curriculum, will have achieved high scores on the SAT or ACT tests, and will be about to graduate from high school, or equivalent, with high class rank.

Successful participants will graduate with the added distinction of a Computing Scholars Honors Diploma. For more information about this program students should contact the Computer Science Department leadership.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.
2. Curriculum Requirements can be fulfilled by other approved courses. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.
3. Semester credit hours fulfill the communication component of the Core Curriculum.
4. Three semester credit hours of Calculus are counted under Mathematics Core, and five semester credit hours of Calculus are counted as Component Area Option Core.
5. Six semester credit hours of Physics are counted under Science core, and one semester credit hour of Physics (PHYS 2125) is counted as Component Area Option Core.
6. Semester credit hours contribute to the Social and Behavioral Sciences component of the Core Curriculum.
7. Transfer students with sufficient background may petition to substitute upper-division semester credit hours in the major for this class.
8. Semester credit hours fulfill the communication elective of the Core Curriculum.

Updated: September 4, 2014 - Visitor: 1129
Will roll over to 2015 web catalog with no changes until we receive the approval to phase out program.

http://catalog.utdallas.edu/2015/undergraduate/programs/ecs/telecommunications-engineering

Erik Jonsson School of Engineering and Computer Science

Interdisciplinary Programs

The Erik Jonsson School of Engineering and Computer Science offers Bachelor of Science programs in Computer Engineering and in Telecommunications Engineering. These programs are delivered by faculty from the Department of Computer Science and Electrical Engineering.

Telecommunications Engineering (BSTE)

Affiliated Faculty


Professor Emeritus: William J. Pervin

Associate Professors: Jorge A. Cobb, Neeraj Mittal, Kamil Sarac

Assistant Professors: Joseph Callenes-Sloan, Myoungsoo Jung

Senior Lecturers: Charles (Pete) Bernardin, Nathan B. Dodge, P. K. Rajasekaran, Marco Tacca

Affiliated Faculty: Cong Liu

Goals for the Telecommunications Engineering Program

The focus of the UT Dallas' Telecommunications Engineering degree is to provide excellent education in modern communications networks and systems. Our graduates shall be uniquely qualified to apply traditional engineering design and problem solving skills in modern telecommunications.

Program Educational Objectives for Telecommunications Engineering

http://catalog.utdallas.edu/2014/undergraduate/programs/ecs/telecommunications-engineering
Within a few years after graduation, graduates of the Telecommunications Engineering Program should:

- Have a successful, long-lived, engineering based career path.
- Meet the needs of industry.
- Contribute to, and/or lead, engineering based teams.
- Actively pursue continuing (lifelong) learning.

**High School Preparation**

Engineering education requires a strong high school preparation. Pre-engineering students should have high school preparation of at least one-half year in trigonometry and at least one year each in elementary algebra, intermediate and advanced algebra, plane geometry, chemistry, and physics, thus developing their competencies to the highest possible levels and preparing to move immediately into demanding college courses in calculus, calculus-based physics, and chemistry for science majors. It is also essential that pre-engineering students have the competence to read rapidly and with comprehension, and to write clearly and correctly.

**Lower-Division Study**

All lower-division students in either Electrical Engineering or Telecommunications Engineering concentrate on mathematics, science, and introductory engineering courses, building competence in these cornerstone areas for future application in upper-division engineering courses. The following requirements apply both to students seeking to transfer to UT Dallas from other institutions as well as to those currently enrolled at UT Dallas, whether in another school or in the Erik Jonsson School of Engineering and Computer Science.

**ABET Accreditation**

The BS program in Telecommunications Engineering is accredited by the Engineering Accreditation Commission of ABET, [www.abet.org](http://www.abet.org).

**Academic Progress in Telecommunications Engineering**

In order to make satisfactory academic progress as a Telecommunications Engineering major, a student must meet all university requirements for academic progress, and must earn a grade of C- or better in each of the "major requirements" courses. No "Major Requirements" course (as listed under Section II of the BSTE degree requirement) may be taken until the student has obtained a grade of C- or better in each of the prerequisites (if a higher grade requirement is stated for a specific class, the higher requirement applies).

**Bachelor of Science in Telecommunications Engineering**

*Degree Requirements (125 semester credit hours)*

1
I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours
- RHET 1302 Rhetoric
- ECS 3390 Professional and Technical Communication

Mathematics: 3 semester credit hours
- MATH 2417 Calculus I

Life and Physical Sciences: 6 semester credit hours
- PHYS 2325 Mechanics
- PHYS 2326 Electromagnetism and Waves

Language, Philosophy and Culture: 3 semester credit hours
Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours
Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours
Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours
- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
- ECS 3361 Social Issues and Ethics in Computer Science and Engineering

Component Area Option: 6 semester credit hours
- MATH 2417 Calculus I
- MATH 2419 Calculus II
- PHYS 2125 Physics Laboratory

II. Major Requirements: 77 semester credit hours

Major Preparatory Course: 25 semester credit hours beyond Core Curriculum
- CHEM 1111 General Chemistry Laboratory I
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>CHEM 1311</td>
<td>General Chemistry I</td>
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<tr>
<td>ECS 1100</td>
<td>Introduction to Engineering and Computer Science</td>
</tr>
<tr>
<td>CS 1337</td>
<td>Computer Science I</td>
</tr>
<tr>
<td>ENGR 2300</td>
<td>Linear Algebra for Engineers</td>
</tr>
<tr>
<td>TE 2305</td>
<td>Discrete Mathematics for Computing I</td>
</tr>
<tr>
<td>CS 2336</td>
<td>Computer Science II</td>
</tr>
<tr>
<td>CS 3340</td>
<td>Computer Architecture</td>
</tr>
<tr>
<td>CS 4141</td>
<td>Digital Systems Laboratory</td>
</tr>
<tr>
<td>CS 4341</td>
<td>Digital Logic and Computer Design</td>
</tr>
<tr>
<td>ECS 3361</td>
<td>Social Issues and Ethics in Computer Science and Engineering</td>
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<td>ECS 3390</td>
<td>Professional and Technical Communication</td>
</tr>
<tr>
<td>EE 3150</td>
<td>Communications Systems Laboratory</td>
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<tr>
<td>ENGR 3300</td>
<td>Advanced Engineering Mathematics</td>
</tr>
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<td>EE 3350</td>
<td>Communications Systems</td>
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<td>EE 4360</td>
<td>Digital Communications</td>
</tr>
<tr>
<td>EE 4361</td>
<td>Introduction to Digital Signal Processing</td>
</tr>
<tr>
<td>TE 3101</td>
<td>Electrical Network Analysis Laboratory</td>
</tr>
<tr>
<td>TE 3102</td>
<td>Signals and Systems Laboratory</td>
</tr>
<tr>
<td>TE 3301</td>
<td>Electrical Network Analysis</td>
</tr>
<tr>
<td>TE 3302</td>
<td>Signals and Systems</td>
</tr>
<tr>
<td>ENGR 3341</td>
<td>Probability Theory and Statistics</td>
</tr>
<tr>
<td>TE 3345</td>
<td>Data Structures and Introduction to Algorithmic Analysis</td>
</tr>
</tbody>
</table>

**Major Core Courses:** 52 semester credit hours beyond Core Curriculum

- CS 3340 Computer Architecture
- CS 4141 Digital Systems Laboratory
- CS 4341 Digital Logic and Computer Design
- ECS 3361 Social Issues and Ethics in Computer Science and Engineering
- ECS 3390 Professional and Technical Communication
- EE 3150 Communications Systems Laboratory
- ENGR 3300 Advanced Engineering Mathematics
- EE 3350 Communications Systems
- EE 4360 Digital Communications
- EE 4361 Introduction to Digital Signal Processing
- TE 3101 Electrical Network Analysis Laboratory
- TE 3102 Signals and Systems Laboratory
- TE 3301 Electrical Network Analysis
- TE 3302 Signals and Systems
- ENGR 3341 Probability Theory and Statistics
- TE 3345 Data Structures and Introduction to Algorithmic Analysis
III. Elective Requirements: 6 semester credit hours

Free Electives: 6 semester credit hours

Both lower- and upper-division courses may count as free electives, but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

Degree programs in the Erik Jonsson School of Engineering and Computer Science are governed by various accreditation boards that place restrictions on classes used to meet the curricular requirements of degrees they certify. For this reason, not all classes offered by the university can be used to meet elective requirements. Please check with your academic advisor before enrolling in classes you hope to use as free electives.

### Fast Track Baccalaureate/Master's Degrees

In response to the need for advanced education in telecommunications engineering, a Fast Track program is available to well-qualified UT Dallas undergraduate students. The Fast Track program is designed to accelerate a student's education so that both a BSTE and an MSTE degree can be earned in five years of full-time study. Qualified seniors may take up to 15 graduate semester credit hours that may be used to complete the baccalaureate degree and also to satisfy the requirements for the master's degree. This is accomplished by (1) taking courses (typically electives) during one or more summer semesters, and (2) beginning graduate coursework during the senior year. Details are available from the Associate Dean for Undergraduate Education.

### Honors Program

The Telecommunications Engineering Program offers upper-division Honors for outstanding students in the BS Telecommunications Engineering degree program. This program offers special sections of designated classes and other activities designed to enhance the educational experience of exceptional students. Admission to the Honors programs requires a 3.500 GPA (grade point average) in at least 30 semester credit hours of coursework. Graduation with Honors requires a 3.500 or better GPA and completion of at least 6 honors classes. These honors classes must include either Senior Honors (CE 4399) or Undergraduate Research in Telecommunications Engineering (TE 4V98) and a Senior Honors Thesis must be completed within one of those two classes. (While the topics may be related, the Senior Thesis does not replace the need for the student to complete a regular Senior Design Project.) The other 5 honors classes can come from a mixture of Graduate level (up to a count of 4) classes and special honor sections of regular undergraduate TE classes (up to a count of 2). Current undergraduate honors courses include but are not
limited to: CE 2310 or EE 2310 (H), EE 3350 or TE 3350 (H), CE 4399 and TE 4V98. Course grades in the 6
honor classes used to determine Honors status must be B- or higher to qualify.

Departmental Honors with Distinction may be awarded to students whose Senior Honors Thesis is judged
by a faculty committee to be of exemplary quality. Only students graduating with Departmental Honors are
eligible. Thesis/projects must be submitted by the deadline that applies to MS Theses in the graduating
semester to allow for proper evaluation. Students interested in Honors with Distinction are encouraged to
start working on their thesis/project a year prior to graduation.

Minors
The School of Engineering and Computer Science does not offer minors in Telecommunications
Engineering at this time.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman
   seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses. The courses listed are recommended as the
   most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. Semester credit hours fulfill the communication component of the Core Curriculum.

4. Three semester credit hours of Calculus are counted under Mathematics Core, and five semester credit hours of
   Calculus are counted as Component Area Core.

5. Six semester credit hours of Physics are counted under Science core, and one semester credit hour of Physics
   (PHYS 2125) is counted as Component Area Option Core.

6. Semester credit hours contribute to the Social and Behavioral Sciences component of the Core Curriculum.

7. Students must pass each of the EE, CS, Math and Science courses listed in this degree plan and each of their
   prerequisites, with a grade of C- or better.

8. Transfer students with sufficient background may petition to substitute upper-division semester credit hours in the
   major for this class.

Updated: September 4, 2014 - Visitor: 331
Erik Jonsson School of Engineering and Computer Science

Minors

Students must take a minimum of 18 semester credit hours for the minor, 12 of which must be upper-division semester credit hours. Students who take a minor will be expected to meet the normal prerequisites in courses making up the minor, and should maintain a minimum GPA of 2.000 on a 4.00 scale (C average). Semester credit hours may not be used to satisfy both the major and minor requirements; however, free elective semester credit hours or major preparatory classes may be used to satisfy the minor. Core courses offered by the school may count as lower-division semester credit hours toward the minor. Topics courses must be approved by the school.

The undergraduate minors in the Erik Jonsson School of Engineering and Computer Science are the following:

Department of Computer Science

- Computer Science
- Information Assurance
- Software Engineering

Department of Materials Science and Engineering

- Nanoscience and Technology

Department of Computer Science

Faculty


Professor Emeritus: Klaus Truemper

Research Professors: Ron Bose

Deleted: Hsing-Mean (Edwin) Sha,
Associate Professors: Sergey Bereg, Lawrence Chung, Jorge A. Cobb, Kendra M. L. Cooper, Xiaohu Guo, Kevin Hamlen, Murat Kantarcioğlu, Yang Liu, Andrian Marcus, Neeraj Mittal, Yu-Chung (Vincent) Ng, Kamil Sarac, Haim Schweitzer, Rym Zalila-Wenkstern

Assistant Professors: Alvaro Cárdenas, Vibhav Gogate, Zhiqiang Lin, Cong Liu, Ryan McMahan, Nicholas Ruozzi, Lingming Zhang


Affiliated Faculty: Milind Dawande, Eakta Jain.

Minor in Computer Science: 21 semester credit hours

A minor in Computer Science requires 21 semester credit hours earned through the following courses:

1. **CS 1337** Computer Science I
2. **CS 2305** Discrete Mathematics for Computing I
3. **CS 2336** Computer Science II
4. **CS 3305** Discrete Mathematics for Computing II
5. **CS 3345** Data Structures and Introduction to Algorithmic Analysis
6. **CS 3354** Software Engineering
7. **CS 4**3XX Elective (any 4000-level organized CS class or **CS 4390**)

Minor in Information Assurance: 30 semester credit hours

A minor in Information Assurance requires 30 semester credit hours earned through the following courses:

1. **CS 1337** Computer Science I
2. **CS 2305** Discrete Mathematics for Computing I
3. **CS 2336** Computer Science II
4. **CS 3305** Discrete Mathematics for Computing II
5. **CS 3345** Data Structures and Introduction to Algorithmic Analysis
6. **CS 4347** Operating Systems Concepts
7. **CS 4348** Database Systems
8. **CS 4**34X Operating Systems Concepts
Minor in Software Engineering: 21 semester credit hours

A minor in Software Engineering requires 21 semester credit hours earned through the following courses:

- **CS 1337** Computer Science I
- **CS 2305** Discrete Mathematics for Computing I
- **CS 2336** Computer Science II
- **SE 3306** Mathematical Foundations of Software Engineering
- **CS 3345** Data Structures and Introduction to Algorithmic Analysis
- **CS 3354** Software Engineering
- SE 4XXX Elective (any 4000-level organized SE class)

Minor in Nanoscience and Technology: 18 semester credit hours

Goals for the Minor in Nanoscience and Technology

As the field of nanotechnology develops further, particularly in the north Texas region, The University of Texas at Dallas has an important role to play in the education of knowledge workers for the industry. The Minor in Nanoscience and Technology offered by the Department of Materials Science and Technology provides a
means for undergraduate students to familiarize themselves with the concepts and principles of nanotechnology.

This minor has been designed around three core NANO designated courses, the content of which is exclusively related to Nanoscience and Nanotechnology. The remaining nine semester credit hours of courses may be chosen from the list of courses below.

The contents of the courses BIOL 4461, CHEM 3322, and PHYS 4301 are similar enough that only one of these three courses may count toward the minor. In addition, several lower-division electives have been included to provide streamlined access to the available upper-division electives.

Since the three core courses are all upper-division electives, only one of the remaining nine semester credit hours must be an upper-division course, although students may choose to challenge themselves by pursuing all nine semester credit hours as upper-division electives.

In concordance with the creation of this minor, the Nanoscience (NANO) course designation would be added to the course catalog for use in designating future Nanoscience-specific courses as they are created.

Educational Objectives for the Minor in Nanoscience and Technology

On completion of the Minor program, students will:

• Have a comprehensive general education background
• Have a working knowledge of nanotechnology and nanoscience principles and industry applications
• Be able to apply key concepts in materials science, chemistry, physics, biology, and engineering to the field of nanotechnology
• Understand the societal and technology issues that may impede the adoption of nanotechnology
• Have the ability to communicate effectively and work collaboratively
• Be able to become successful professionals and, if they desire, be able to pursue graduate study
• Be able to identify career paths and requisite knowledge and skills for career change towards nanotechnology

Requirements for the Minor in Nanoscience and Technology

A total of 18 semester credit hours are required, consisting of three core classes (9 semester credit hours) and 9 additional semester credit hours of electives.

I. Core Requirements: 9 semester credit hours

NANO 3301 Introduction to Nanoscience and Nanotechnology
NANO 3302 Microscopy, Spectroscopy, and Nanotech Instrumentation
NANO 4V95 Undergraduate Research in Nanotechnology

II. Elective Requirements: 9 semester credit hours
Students must complete at least nine semester credit hours chosen from the following courses. At least one of the courses must be upper-division (3000 or 4000):

**Nano-designated courses:**
- NANO 3310 Introduction to Materials Science
- NANO 4391 or EE 4391 Technology of Plasma
- NANO 4V95 Undergraduate Research in Nanotechnology
- Any other upper-division NANO-designated course

**Lower-division courses:**
- CHEM 2323 Introductory Organic Chemistry I
- CHEM 2325 Introductory Organic Chemistry II
- MATH 2451 Multivariable Calculus with Applications
- PHYS 2303 Contemporary Physics
- MECH 2320 Mechanics of Materials

**Upper-division courses:**
- PHYS 4352 Concepts of Modern Physics
- PHYS 4383 Plasma Physics
- MECH 4360 Introduction to Nanostructured Materials
- MECH 4370 Introduction to MEMS
- EE 4392 Introduction to Optical Systems
- EE 3310 Electronic Devices
- EE 3311 Electronic Circuits
- CHEM 4335 Polymer Chemistry
- CHEM 3472 Instrumental Analysis
- CHEM 4473 Physical Measurements Laboratory
- CHEM 3321 Physical Chemistry I
- CHEM 4355 Computational Modeling

Only one of the following courses may be used to count toward the Minor:
- BIOL 4461 Biophysical Chemistry
- CHEM 3322 Physical Chemistry II
- PHYS 4301 Quantum Mechanics I
School of Interdisciplinary Studies (GENS)
2015-16 Undergraduate Catalog

Degree Programs
School of Interdisciplinary Studies

The School of Interdisciplinary Studies provides an environment that allows students to understand and integrate the liberal arts and sciences. The school administers interdisciplinary degree programs that afford students the opportunity to design their degree plans on an individualized basis. To assist the student in pursuing a course of study leading to successful completion of an undergraduate degree, the school provides a unique support structure. Included in this structure is the school's Internship Program that supports professional work experience in diverse career settings. The educational environment of Interdisciplinary Studies is especially congenial to students eager to pursue unconventional or innovative combinations of coursework.

Faculty

All faculty in the university are eligible to participate.

Professors: George W. Fair, Karen J. Prager, Lawrence J. Redlinger

Professor in Practice: Seema Yasmin

Associate Professor: Erin A. Smith

Senior Lecturers: Kathleen Byrnes, Candice T. Chandler, Susan P. Chizeck, Dachang Cong, Jillian Duquaine-Watson, Jonathan Frome, Patricia A. Leek, Lynn W. Mabe, Angela McNulty, Rebekah Nix, Elizabeth M. Saller, India Stewart, Nancy C. Van, Tonja Wissinger

Programs

The School of Interdisciplinary Studies administers the programs for the Bachelor of Arts in American Studies, the Bachelor of Science in Healthcare Studies, the Bachelor of Arts in Interdisciplinary Studies, and the Bachelor of Science in Interdisciplinary Studies. The program in American Studies is designed for students who wish to learn more about United States' institutions, arts, and society, both in the past and present. The Bachelor of Science in Healthcare Studies is designed for those planning to enter the healthcare professions and affiliated fields. The Bachelor of Arts and the Bachelor of Science in Interdisciplinary Studies Programs emphasize a broad learning experience and a wider perspective than that provided by traditional undergraduate majors. All programs are designed for students who wish to choose among conventional disciplines, both to explore a variety of topics and to integrate courses focusing on a particular area of interest. They are also appropriate for those students who seek a thorough grounding in the traditional arts and sciences from an interdisciplinary perspective. For students in other schools who wish to broaden their education by including a School of Interdisciplinary Studies program, the double degree is recommended. This option calls for a minimum of 30 semester credit hours at the upper division beyond those necessary for the major with the larger semester credit hour requirement. In addition, the student must satisfy all requirements for both majors. The School of Interdisciplinary Studies encourages double majors in American Studies and Healthcare Studies, but a double major is not an option in Interdisciplinary Studies. Students seeking to double major in American Studies or Healthcare Studies must consult with the Associate Dean for Undergraduate Education in the School of Interdisciplinary Studies. The School of Interdisciplinary Studies is now working in collaboration with the Health Professions Advising.
Center to offer health courses under the prefix of HLTH. In order to graduate with a degree from the School of Interdisciplinary Studies, students must complete 51 semester credit hours of upper-division coursework. They must complete a minimum of 45 semester credit hours at UT Dallas. In the final semester, all the coursework should be taken at UT Dallas.

**Fast Track Baccalaureate/Master's Degrees**

In response to the need for post-baccalaureate education, a Fast Track program is available to well-qualified UT Dallas undergraduate students. At the end of five years of successful study, it is possible to earn both a bachelor’s degree and a master’s degree in Interdisciplinary Studies. Qualified seniors may take up to 15 graduate semester credit hours that may be used to complete the baccalaureate degree and also to satisfy the requirements for the master’s degree. Interested students should see the Associate Dean of Undergraduate Education (ADU) for specific requirements.

**Internship Program**

All undergraduates in the School of Interdisciplinary Studies are encouraged to take an internship with an organization in the community. Internships provide students with the opportunity to apply the knowledge and skills that they have mastered in their academic work. Students applying for internships must be in their junior or senior year and in good academic standing, have completed the appropriate coursework, and receive approval of the Internship Director. Students normally enroll for 3 to 6 semester credit hours. Students interested in the program should see the Internship Director of the School of Interdisciplinary Studies or call 972/883-2354.

**Honors in the Major**

The School of Interdisciplinary Studies offers Honors Programs, which vary, by major, and provide an intellectually challenging opportunity for the brightest and best students in the School of Interdisciplinary Studies.

Junior and Senior students with a cumulative UT Dallas GPA (grade point average) of 3.900 are eligible to apply for the honors programs, which consist of a defined curriculum of 30 semester credit hours, including an upper-division writing course, and an internship component. Due to our high GPA entrance requirements, an honors thesis is not required for honors in the major. For Honors with distinction, however, an honors thesis is required. This thesis must be submitted at least one week before the end of classes, and must be nominated by the supervising professor as being of exceptional quality. The faculty of the school (or a subgroup thereof) will then determine if the thesis warrants this level of distinction. Students must apply for Departmental Honors through their academic advisor at the time they apply for graduation. For applications and more details, please consult your Interdisciplinary Studies academic advisor.

**Minors**

Minors offered by the School of Interdisciplinary Studies are available to students in all majors except for students taking the Bachelor of Arts or the Bachelor of Science in Interdisciplinary Studies. There is no minor offered in Interdisciplinary Studies. Students enrolled in the Bachelor of Arts in American Studies and the Bachelor of Science in Healthcare Studies are encouraged to take any minor offered by any school at the university. Students may also contact the academic advisor in their major for a list of the courses that
satisfy each minor. Students who take a minor will be expected to meet the normal prerequisites in courses making up the minor, and should maintain a minimum GPA of 2.000 on a 4.00 scale (C average). Minors available within the School of Interdisciplinary Studies are:

- American Studies
- Environmental Studies
• Exercise Sciences
• Gender Studies
• Healthcare Studies

See catalog.utdallas.edu/2015/undergraduate/programs/is/minors.
School of Interdisciplinary Studies

American Studies (BA)

The program in American Studies focuses on the study of the cultures, institutions, legal system, political structure, and social processes of the United States. It emphasizes an interdisciplinary perspective. Students choose two broad areas or options to study.

American Studies graduates work in business, culture industries, government, legal fields, media, non-profit organizations, and sports industries. The BA in American Studies is also an excellent preparation for law school or graduate school. Each student designs his or her own program within specific guidelines and in consultation with an academic advisor. The courses that a student takes as part of the American Studies program may be given in any school within the university but will include American Studies courses and appropriate Interdisciplinary Studies courses. A list of courses which apply to the American Studies degree may be obtained from the academic advisors in the School of Interdisciplinary Studies. Double majors including American Studies are encouraged.

Bachelor of Arts in American Studies

Degree Requirements (120 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

Choose one course from the following:
MATH 1306 College Algebra for the Non-Scientist
MATH 1314 College Algebra

Life and Physical Sciences: 6 semester credit hours

Choose two courses from the following:
ISIS 2305 Humans: Our Place in Nature
ISIS 2308 Bones, Bodies, and Disease
ISNS 2359 Earthquakes and Volcanoes
ISNS 2367 The Oceans
ISNS 2368 Weather and Climate
Language, Philosophy and Culture: 3 semester credit hours

Choose one course from the following:
- AMS 2300 American Popular Culture
- AMS 2341 American Studies for the Twenty-First Century
- HUMA 1301 Exploration of the Humanities

Or select any 3 semester credit hours from Language, Philosophy and Culture core courses

Creative Arts: 3 semester credit hours

Choose one course from the following:
- ARTS 1301 Exploration of the Arts
- FILM 2332 Understanding Film

Or select any 3 semester credit hours from Creative Arts core courses

American History: 6 semester credit hours

Choose two courses from the following:
- HIST 1301 U.S. History Survey to Civil War
- HIST 1302 U.S. History Survey from Civil War
- HIST 2301 History of Texas

Government / Political Science: 6 semester credit hours

- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

Choose one course from the following:
- GST 2300 Introduction to Gender Studies
- PSY 2301 Introduction to Psychology
- SOC 1301 Introduction to Sociology

Or select any 3 semester credit hours from Social and Behavioral Sciences core courses. Students are strongly encouraged to take a core course that is closely related to their options and career goals.

Component Area Option: 6 semester credit hours
Students are strongly encouraged to take two Component Area Option courses that are closely related to their options and career goals.

II. Major Requirements: 48 semester credit hours

Major Core Courses: 12 semester credit hours

AMS 3302 American Cultures

or AMS 2341 American Studies for the Twenty-First Century

BIS 3320 The Nature of Intellectual Inquiry

Choose two courses from the following:

HIST 3369 United States Foreign Relations

PSCI 3325 American Public Policy

PSCI 3327 American Foreign Policy

And other courses on American history or American government approved by the academic advisor.

Major Related Courses: Two Options 36 semester credit hours

In addition to the major core courses, students will take 18 semester credit hours of coursework in each of two of the following subject options, for a total of 36 semester credit hours:

- African American Culture
- American Body Politic
- American Economic System
- American Legal System
- America: Past and Present
- America and the World Community
- American Business and Technology
- American Literature and Arts
- Gender Studies
- Issues in Media and Communication
- Latino/Latina Culture
- Popular Culture

III. Elective Requirements: 30 semester credit hours

Required for all freshmen: 1 semester credit hour

UNIV 1010 Freshman Seminar

BIS 1100 Interdisciplinary Studies Freshman Seminar
Free Electives: 29 semester credit hours

Students must complete 51 semester credit hours of upper-division coursework to graduate. They must complete a minimum of 45 semester credit hours at UT Dallas. In the final semester, all the coursework should be taken at UT Dallas.

Honors in American Studies

GPA (grade point average): 3.900 cumulative GPA, 3.900 GPA in courses described below, and a total of 27 or 30 upper-division UT Dallas semester credit hours as described below. (The variation is determined by whether or not (AMS 3302) or (AMS 2341) is chosen). The total semester credit hours must be 30.

**Required courses: 24 semester credit hours**

AMS 3302 American Cultures (3 semester credit hours)

or AMS 2341 American Studies for the Twenty-First Century (3 semester credit hours)

BIS 3320 The Nature of Intellectual Inquiry (3 semester credit hours)

Two of HIST 3369, PSCI 3325, PSCI 3327 or other courses on American history or American government approved by the academic advisor (6 semester credit hours)

Core Course of first chosen option area (3 semester credit hours)

Core Course of second chosen option area (3 semester credit hours)

One approved AMS course from option area 1 (3 semester credit hours)

One approved course from option area 2 (3 semester credit hours)

**Prescribed courses: 6 semester credit hours**

6 semester credit hours of Internship

or 3 semester credit hours of Internship and one approved three semester credit hour course from option area 1 or 2

**Notation on Transcript:** Honors in Major

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. A required major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in the Core Curriculum.
School of Interdisciplinary Studies

Healthcare Studies (BS)

Overview

The Bachelor of Science degree in Healthcare Studies is designed for pre-health students who want to pursue careers in healthcare fields such as medicine, pharmacy, dentistry, optometry, physical therapy, health care administration, occupational therapy, physician assisting, and podiatry.

The school of Interdisciplinary Studies offers the degree, which provides the academic foundation for pre-health students to prepare for advanced study as well as the essential knowledge components in healthcare studies.

Science foundation areas within the degree include biology, chemistry, and physics. Healthcare studies areas include pre-health professional development, a healthcare internship, medical terminology, psychological aspects of health and illness, understanding of the U.S. healthcare system, patient education, and prevention.

Faculty List Placeholder

Bachelor of Sciences in Healthcare Studies

Degree Requirements (120 semester credit hours)\(^1\)

I. Core Curriculum Requirements: 42 semester credit hours\(^2\)

   Communication: 6 semester credit hours

   \[\text{COMM 1311 Survey of Oral and Technology-based Communication}\]
   \[\text{RHET 1302 Rhetoric}\]

   Mathematics: 3 semester credit hours

   \[\text{Choose one from the following courses:}\]
   \[\text{MATH 1325 Applied Calculus I}\]
   \[\text{MATH 2413 Differential Calculus}\]
   \[\text{MATH 2417 Calculus I}\]

   Life and Physical Sciences: 6 semester credit hours

   \[\text{CHEM 1311 General Chemistry I}\]
CHEM 1312 General Chemistry II

Language, Philosophy and Culture: 3 semester credit hours
HUMA 1301 Exploration of the Humanities

Or select any 3 semester credit hours from Language, Philosophy and Culture core courses

Creative Arts: 3 semester credit hours
Choose one from the following courses:
ARTS 1301 Exploration of the Arts
FILM 2332 Understanding Film

Or select any 3 semester credit hours from Creative Arts core courses

American History: 6 semester credit hours
Choose two from the following courses:
HIST 1301 U.S. History Survey to Civil War
HIST 1302 U.S. History Survey from Civil War
HIST 2301 History of Texas

Government / Political Science: 6 semester credit hours
GOVT 2305 American National Government
GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
PSY 2301 Introduction to Psychology

Component Area Option: 6 semester credit hours
BIOL 2311 Introduction to Modern Biology I
STAT 2332 Introductory Statistics for Life Science

II. Major Requirements: 44 or 52 semester credit hours

Foundation I: Scientific Foundation Studies: 15 or 23 semester credit hours beyond Core Curriculum (depending upon career track)

All the following:
BIOL 2311 Introduction to Modern Biology II
BIOL 2111 Introduction to Modern Biology Workshop I
BIOL 2312 Introduction to Modern Biology II
BIOL 2112 Introduction to Modern Biology Workshop II

CHEM 1311 General Chemistry I
CHEM 1111 General Chemistry Laboratory I
CHEM 1312 General Chemistry II
CHEM 1112 General Chemistry Laboratory II

GOVT 2305 American National Government
GOVT 2306 State and Local Government

HUMA 1301 Exploration of the Humanities

Component Area Option: 6 semester credit hours

BIOL 2311 Introduction to Modern Biology I
STAT 2332 Introductory Statistics for Life Science

Comment [MJ1]: Proposed a new version for improved readability. Approved by Dr. Cong, 2-10-15 email.
CHEM 1311 General Chemistry I
CHEM 1111 General Chemistry Laboratory I
CHEM 1312 General Chemistry II
CHEM 1112 General Chemistry Laboratory II

And

Either 8 or 16 semester credit hours of the following courses (depending on career track)*

8 semester credit hours of the following set of courses:

- CHEM 2323 Introductory Organic Chemistry I
- CHEM 2123 Introductory Organic Chemistry Laboratory I
- CHEM 2325 Introductory Organic Chemistry II
- CHEM 2125 Introductory Organic Chemistry Laboratory II

Or 16 semester credit hours of the following set of courses:

- CHEM 2323 Introductory Organic Chemistry I
- CHEM 2123 Introductory Organic Chemistry Laboratory I
- CHEM 2325 Introductory Organic Chemistry II
- CHEM 2125 Introductory Organic Chemistry Laboratory II

And

- PHYS 1301 College Physics I
- PHYS 2125 Physics Laboratory I
- PHYS 1302 College Physics II
- PHYS 2126 Physics Laboratory II

Or

- PHYS 2325 Mechanics
- PHYS 2125 Physics Laboratory I
- PHYS 2326 Electromagnetism and Waves
- PHYS 2126 Physics Laboratory II

Foundation II: Healthcare Foundation Studies: 14 semester credit hours

- HLTH 1100 Career Explorations for the Health Professions
- HLTH 3101 Medical Terminology
- HLTH 3300 Pre-Health Professional Development
- HLTH 3305 The U.S. Healthcare System
- HLTH 3315 Issues in Patient Education
- HLTH 4304 Health Professions Internship

Foundation III: Multidisciplinary Healthcare Studies: 15 semester credit hours

Required (3 semester credit hours):

- BIS 3320 The Nature of Intellectual Inquiry
Required (3 semester credit hours from the following):

- HLTH 3301 Issues in Geriatric Healthcare
- HLTH 4380 Special Topics in Healthcare

Required (3 semester credit hours from the following):

- PSY 4328 Health Psychology
- PSY 4343 Abnormal Psychology

And choose 6 semester credit hours from among the following courses:

- ECON 3330 Economics of Health
- GEOG 3357 Spatial Dimensions of Health and Disease
- HLTH 3310 Health Care Issues: Global Perspectives
- HMGT 4301 Introduction to Healthcare Management
- PHIL 3328 History and Philosophy of Science and Medicine
- PHIL 4320 Medical Ethics
- PHIL 4321 Philosophy of Medicine
- PSCI 4365 Law and Medicine
- SOC 4371 Mental Health and Illness
- SOC 4372 Health and Illness

II. Guided Elective Requirements: 26 or 34 semester credit hours

- Required for all freshmen: 1 semester credit hour
  - UNIV 1010 Freshman Seminar
  - BIS 1100 Interdisciplinary Studies Freshman Seminar

Guided Electives: 25 or 33 semester credit hours

Students interested in pursuing entrance into health professional fields (such as medical, dental, pharmacy, physician assistant, physical therapy, optometry, etc.) should seek advising on additional courses required for entrance into the particular professional school of their interest. A subset of the following courses should be considered essential and should be taken as part of their elective credits.

- BIOL 2281 Introductory Biology Laboratory
- BIOL 3301 Classical and Molecular Genetics
- BIOL 3101 Classical and Molecular Genetics Workshop
- BIOL 3302 Eukaryotic Molecular and Cell Biology
- BIOL 3102 Eukaryotic Molecular and Cell Biology Workshop
- BIOL 3361 or CHEM 3361 Biochemistry I
BIOL 3161 Biochemistry Workshop I
BIOL 3361 or CHEM 3362 Biochemistry II
BIOL 3162 Biochemistry Workshop II
BIOL 3455 Human Anatomy and Physiology with Lab I
BIOL 3456 Human Anatomy and Physiology with Lab II
BIOL 3370 Exercise Physiology
BIOL 3V20 General Microbiology with Lab
BIOL 4310 Cellular Microbiology
BIOL 4345 Immunobiology
BIOL 4350 Medical Microbiology
BIOL 4V40 Special Topics in Molecular and Cell Biology
HLTH 1301 Introduction to Kinesiology
HLTH 1322 Human Nutrition
HLTH 4V01 Health Professions Independent Study
ISIS 2308 Bones, Bodies, and Disease
ISIS 3309 Dental Anthropology
NSC 3361 Behavioral Neuroscience
NSC 4366 Neuroanatomy
NSC 4351 Medical Neuroscience

Students must complete a total of 51 semester credit hours of upper-division coursework to graduate. A minimum of 45 semester credit hours must be taken at UT Dallas. All the coursework in the final semester must be taken at UT Dallas.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. A required major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in the Core Curriculum.

4. Students may take either 8 or 16 semester credit hours in Foundation I depending upon career track. Please consult your advisor for additional information.
School of Interdisciplinary Studies

Interdisciplinary Studies (BA, BS)

The Bachelor's degrees in Interdisciplinary Studies (BAIS) emphasize a broad learning experience and a wider perspective than that provided by traditional undergraduate majors. They are designed to offer the student the opportunity to participate in an interdisciplinary, coherent, academically sound, and goal-oriented education directly relevant to the student's intellectual development and career aspirations. They are appropriate for those students who seek a thorough grounding in the traditional arts and sciences from an interdisciplinary perspective. Each student in the Interdisciplinary Studies program becomes an active partner in the formulation of his or her program of study, working in consultation with an academic advisor to devise an appropriate individual degree plan. Within the framework of two foundation areas, a university-wide Interdisciplinary Studies sequence, and a multidisciplinary concentration, a student may draw upon the resources of all schools of the university to create a degree program.

Common areas of concentration for the BAIS are business issues, environmental studies, human resources, international relations, law, public relations, urban studies, and courses toward Teacher Certification (EC-6 and 4-8). Graduates have been accepted into graduate programs in divinity, education, environmental studies, the health professions, humanities, interdisciplinary studies, law, management, and social sciences. The BS in Interdisciplinary Studies is selected by students interested in environmental studies, the health professions, and other science-related fields. Students interested in pre-health are advised to contact Head of the Healthcare Studies during their first semester.

Minors and Double Majors are not allowed in these two Interdisciplinary Studies degrees. In order to make the Interdisciplinary Studies degrees reflect their name, no more than 21 semester credit hours of courses with the same prefix are allowed in the combined major requirements and the 6 semester credit hours of electives. (All courses taught by the Naveen Jindal School of Management courses count as a single prefix.) In the major requirements and 6 semester credit hours of electives, there must be a minimum of 51 semester credit hours of upper-division courses. In the concentration, a minimum of three (3) prefixes must be represented. Please consult an academic advisor for further elaboration.

Bachelor of Arts in Interdisciplinary Studies

Degree Requirements (120 semester credit hours) \(^1\)

I. Core Curriculum Requirements: 42 semester credit hours \(^2\)

**Communication:** 6 semester credit hours

- [COMM 1311](http://example.com) Survey of Oral and Technology-based Communication
- [RHET 1302](http://example.com) Rhetoric
Mathematics: 3 semester credit hours
Choose one course from the following:

- MATH 1306 College Algebra for the Non-Scientist
- MATH 1314 College Algebra

Life and Physical Sciences: 6 semester credit hours
Choose two courses from the following:

- ISIS 2305 Humans: Our Place in Nature
- ISIS 2308 Bones, Bodies, and Disease
- ISNS 2359 Earthquakes and Volcanoes
- ISNS 2367 The Oceans
- ISNS 2368 Weather and Climate

Or select any 6 semester credit hours from Life and Physical Sciences core courses

Language, Philosophy and Culture: 3 semester credit hours
Choose one course from the following:

- AMS 2300 American Popular Culture
- AMS 2341 American Studies for the Twenty-First Century
- HUMA 1301 Exploration of the Humanities

Or select any 3 semester credit hours from Language, Philosophy and Culture core courses

Creative Arts: 3 semester credit hours
Choose one course from the following:

- ARTS 1301 Exploration of the Arts
- FILM 2332 Understanding Film

Or select any 3 semester credit hours from Creative Arts core courses

American History: 6 semester credit hours
Choose two courses from the following:

- HIST 1301 U.S. History Survey to Civil War
- HIST 1302 U.S. History Survey from Civil War
- HIST 2301 History of Texas

Government / Political Science: 6 semester credit hours

- GOVT 2305 American National Government
- GOVT 2306 State and Local Government
Social and Behavioral Sciences: 3 semester credit hours

*Choose one course from the following:*

- **GST 2300** Introduction to Gender Studies
- **PSY 2301** Introduction to Psychology
- **SOC 1301** Introduction to Sociology

*Or select any 3 semester credit hours from Social and Behavioral core courses. Students are strongly encouraged to take a core course that is closely related to their foundations, concentrations, and career goals.*

Component Area Option: 6 semester credit hours

Students are strongly encouraged to take two Component Area Option courses that are closely related to their foundations, concentrations, and career goals.

II. Major Requirements: 54 semester credit hours

**Major Core Courses:** 12 semester credit hours

- **BIS 3320** The Nature of Intellectual Inquiry
- One 3 semester credit hour ISIS course
- One 3 semester credit hour IS course offered by IS or another school (ISAH, ISEC, ISNS, or ISSS)
- One 3 semester credit hour course chosen from AMS, GST or ISIS,
  or **BIS 4V04** Internship

**Major Related Courses:** 42 semester credit hours consisting of:

- Two Foundations: 12 semester credit hours each (24 semester credit hours)
  The two foundations are drawn from School of Arts and Humanities, School of Behavioral and Brain Sciences, Erik Jonsson School of Engineering and Computer Science, School of Economic, Political and Policy Sciences, School of Interdisciplinary Studies, Naveen Jindal School of Management, and School of Natural Sciences and Mathematics.
  One Concentration: 18 semester credit hours
  Each student devises, in consultation with his/her advisor, the topic for the Concentration and selects 18 semester credit hours of coursework related to the topic, drawn from at least three academic disciplines.
  Appropriate IS coursework may be selected.

III. Elective Requirements: 24 semester credit hours

**Guided Electives:** 1 semester credit hour
Free Electives: 23 semester credit hours

Students must complete 51 semester credit hours of upper-division coursework to graduate. A minimum of 45 semester credit hours must be taken at UT Dallas. All the coursework in the final semester must be taken at UT Dallas.

Honors in Interdisciplinary Studies (BA)

GPA (grade point average): 3.900 cumulative GPA, 3.900 GPA in courses as described below, and a total of 30 upper-division UT Dallas semester credit hours as described below.

**Required courses: 9 semester credit hours**

- **BIS 3320** The Nature of Intellectual Inquiry (3 semester credit hours)
- Foundation I (3 semester credit hours)
- Foundation II (3 semester credit hours)

**Concentration: 15 semester credit hours**

Options: (6 semester credit hours)

- 6 semester credit hours of Practice Teaching
- 6 semester credit hours of Internship
- or 3 semester credit hours of Internship and one three semester credit hour ISIS/AMS/GST course

**Notation on Transcript:** Honors in Major
Bachelor of Science in Interdisciplinary Studies

Degree Requirements (120 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

- COMM 1311 Survey of Oral and Technology-based Communication
- RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

Choose one course from the following:

- MATH 1325 Applied Calculus I
- MATH 2413 Differential Calculus
- MATH 2417 Calculus I

Life and Physical Sciences: 6 semester credit hours

Choose two courses from the following:

- ISIS 2305 Humans: Our Place in Nature
- ISIS 2308 Bones, Bodies, and Disease
- ISNS 2359 Earthquakes and Volcanoes
- ISNS 2367 The Oceans
- ISNS 2368 Weather and Climate

Or select any 6 semester credit hours from Life and Physical Sciences core courses

Language, Philosophy and Culture: 3 semester credit hours

Choose one course from the following:

- AMS 2300 American Popular Culture
- AMS 2341 American Studies for the Twenty-First Century
- HUMA 1301 Exploration of the Humanities

Or select any 3 semester credit hours from Language, Philosophy and Culture core courses

Creative Arts: 3 semester credit hours

Choose one course from the following:

- ARTS 1301 Exploration of the Arts
- FILM 2332 Understanding Film
Or select any 3 semester credit hours from Creative Arts core courses

American History: 6 semester credit hours

Choose two courses from the following:

HIST 1301 U.S. History Survey to Civil War
HIST 1302 U.S. History Survey from Civil War
HIST 2301 History of Texas

Government / Political Science: 6 semester credit hours

GOVT 2305 American National Government
GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

Choose one course from the following:

GST 2300 Introduction to Gender Studies
PSY 2301 Introduction to Psychology
SOC 1301 Introduction to Sociology

There are other core courses to choose from. Students are strongly encouraged to take a core course that is closely related to their foundations, concentrations, and career goals.

Component Area Option: 6 semester credit hours

Choose one of the following courses in mathematics:

MATH 1326 Applied Calculus II (if MATH 1325 Applied Calculus I is taken)
MATH 2414 Integral Calculus or MATH 2415 Calculus of Several Variables (if MATH 2413 Differential Calculus is taken)
MATH 2419 Calculus II (if MATH 2417 Calculus I is taken)

And one of the following:

MATH 2415 Calculus of Several Variables
or any other Component Area Option courses

II. Major Requirements: 54 semester credit hours

Major Core Courses: 12 semester credit hours (6 semester credit hours beyond Core Curriculum)

BIS 3320 The Nature of Intellectual Inquiry
and

Three Science IS courses.

Any three ISNS science courses

or

ISIS 2305 Humans: Our Place in Nature

ISIS 2308 Bones, Bodies, and Disease

And one ISNS science course

Major Related Courses: 42 semester credit hours consisting of:

Two Foundations: 12 semester credit hours each (24 semester credit hours)

Foundation I consists of courses taught by School of Natural Sciences and Mathematics, Erik Jonsson School of Engineering and Computer Science, or Science courses from the School of Behavioral and Brain Sciences (NSC and CGS only).

Foundation II is drawn from the courses taught by School of Arts and Humanities, School of Behavioral and Brain Sciences (if not used for Foundation I), Erik Jonsson School of Engineering and Computer Science (if not used in Foundation I), School of Economic, Political and Policy Sciences, School of Interdisciplinary Studies, and Naveen Jindal School of Management.

One Concentration: 18 semester credit hours

Each student devises, in consultation with his/her advisor, the topic for the Concentration and selects 18 semester credit hours of coursework related to the topic, drawn from at least three academic disciplines. Appropriate IS coursework may be selected. Three courses must be science courses and one must be a statistics course.

III. Elective Requirements: 24 semester credit hours

Guided Electives: 1 semester credit hour

UNIV 1010 Freshman Seminar

BIS 1100 Interdisciplinary Studies Freshman Seminar

Free Electives: 23 semester credit hours

Honors in Interdisciplinary Studies (BS)

GPA (grade point average): 3.900 cumulative GPA, 3.900 GPA in courses described below, and a total of 30 upper-division UT Dallas semester credit hours as described below.

Required courses: 9 semester credit hours

BIS 3320 The Nature of Intellectual Inquiry (3 semester credit hours)
Foundation I - Natural Science and Mathematics (6 semester credit hours)

**Concentration: 15 semester credit hours**

Options (6 semester credit hours)
- 6 semester credit hours of Practice Teaching
- 6 semester credit hours of Internship
- Or 3 semester credit hours of Internship and one three semester credit hour ISIS/AMS/GST course

Notation on Transcript: Honors in Major

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. A required major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in the Core Curriculum. Students will need to take an additional 6 semester credit hours within the Major Requirements.
School of Interdisciplinary Studies

Minors

Minors offered by the School of Interdisciplinary Studies are available to students in all majors except for students taking the Bachelor of Arts or the Bachelor of Science in Interdisciplinary Studies. There is no minor offered in Interdisciplinary Studies. Students enrolled in the Bachelor of Arts in American Studies and the Bachelor of Science in Healthcare Studies are encouraged to take any minor offered by any school at the university. Students may also contact the academic advisor in their major for a list of the courses that satisfy each minor. Students who take a minor will be expected to meet the normal prerequisites in courses making up the minor, and should maintain a minimum GPA of 2.000 on a 4.00 scale (C average). Minors available within the School of Interdisciplinary Studies are:

- American Studies
- Environmental Studies
- Exercise Sciences
- Gender Studies
- Healthcare Studies

Minor in American Studies: 18 semester credit hours

The minor in American studies will facilitate a better understanding of American culture, economy, politics, and society.

Required Courses: 6 semester credit hours

AMS 3302 American Cultures
BIS 3320 The Nature of Intellectual Inquiry

Electives: 12 semester credit hours

Choose four courses from the following:

AMS 2300 American Popular Culture
AMS 3321 American Ethnic Experience: Immigrants Before 1945
AMS 3322 American Ethnic Experience: Immigrants After 1945
AMS 3326 The United States in the Twenty-First Century
AMS 3374 Entrepreneurs in America
Minor in Environmental Studies: 18 semester credit hours

This minor will provide students from all majors with a better understanding of environmental issues and the skills to analyze future environmental problems. The name "Environmental Studies" reflects the goal of this interdisciplinary minor to encourage students to learn to view environmental issues from scientific, economic, political, and social standpoints. The 18 semester credit hours of the Environmental Sciences minor enable UT Dallas students to develop expertise in this important area. The framework provides all students with a policy and science perspective and allows students to tailor the minor, through choice of electives, to their individual goals. Students will be strongly encouraged to include an Environmental Studies Internship/Project (BIS 3310) in their minor though it may not be possible for all students.

The Environmental Studies minor will be housed within the School of Interdisciplinary Studies with a Supervisory Committee consisting of Dr. Elizabeth Salter and the professors of the two required courses, Dr. Lloyd Dumas and Dr. Thomas Brikowski.

Required Foundation Courses: 6 semester credit hours
- **ECON 4336** Environmental Economic Theory and Policy
- **NATS 2333** Energy, Water, and the Environment

Electives: 12 semester credit hours
Choose **four courses** from the following list, or **three courses** from the list with one alternate course accompanied by written permission of the Supervisory Committee.

- **BIS 3310** Environmental Studies Project (This course is strongly recommended.)
- **CHEM 4381** Green Chemistry and Green Fuels
- **ECON 4332** Energy and Natural Resources Economics
- **ECON 4333** Environmental Economics
- **GEOS 2302** The Global Environment
- **GEOS 2310** Environmental Geology
- **GEOS 2324** Energy, the Environment and Human Health
Minor in Exercise Sciences: 18 semester credit hours

The minor in Exercise Sciences is ideal for students who are interested in broadening their experience and knowledge base in the study and analysis of principles related to human movement, exercise, and athletics. Students will acquire new information on key domains of the field including exercise physiology, psychological approach to health, nutrition principles, injury prevention, and treatment strategies. Specifically, the minor provides students with an introductory grounding in physiologic principles that help us understand not only how human systems respond to exercise stress, but also how the body changes with chronic exercise stress.

Required Courses: 9 semester credit hours

- HLTH 1301 Introduction to Kinesiology
- HLTH 1322 Human Nutrition
- BIOL 3370 Exercise Physiology

Upper-Division Courses: 9 semester credit hours

- BIOL 3455 Human Anatomy and Physiology with Lab I
- BIOL 3456 Human Anatomy and Physiology with Lab II
- ECON 3315 Sports Economics
- HLTH 3101 Medical Terminology
- PHYS 3317 Physics of the Human Body
- PSY 4328 Health Psychology
Minor in Gender Studies: 18 semester credit hours

The Gender Studies minor is designed to examine the ways in that gender as a complex social construction intersects with class, race, age, ethnicity, nationality, sexual orientation, and sexual identity; to examine the lives and experiences of groups that have been underrepresented in traditional academic work; and to acquaint students with the fundamental methodologies of women's and gender studies.

Required Courses: 9 semester credit hours

GST 2300 Introduction to Gender Studies

And choose two courses from the following:

GST 3301 or PSY 3324 Psychology of Gender
GST 3302 or HIST 3302 Gender in Western Thought
GST 3303 Gender, Society, and Politics

Electives: 9 semester credit hours

Choose three courses from the following:

AMS 2300 American Popular Culture
BIS 4V04 Internship (related to gender studies)
CRIM 3324 Gender, Crime, and Justice
GST 3301 or PSY 3324 Psychology of Gender
GST 3302 or HIST 3302 Gender in Western Thought
GST 3303 Gender, Society, and Politics

GST 4311 Gender and Education
GST 4325 Motherhood and the Technological Womb
GST 4360 or AMS 4360 Rebels and Reformers: Women and Alcohol in America
GST 4379 Topics in Gender Studies
GST 4380 or SOC 4380 Women, Work, and Family
GST 4381 Senior Honors Research
GST 4382 Senior Honors in Gender Studies
GST 4V80 Independent Study
HIST 3324 Women in European Society
HIST 3366 Themes in Social History of the United States
HIST 3384 U.S. Women from Settlement to Present
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tr>
<td>HIST 4360</td>
<td>Topics in American Women's History</td>
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<tr>
<td>ISIS 3306</td>
<td>Human Female: Biology and Culture</td>
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<tr>
<td>ISIS 3310</td>
<td>Childhood Sexual Abuse: A Multidisciplinary Investigation</td>
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<td>ISIS 3312</td>
<td>Women in Management</td>
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<td>ISIS 4350</td>
<td>International Development: Cultural Impacts</td>
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<td>LIT 3327</td>
<td>Mid-Twentieth Century American Literature</td>
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<tr>
<td>LIT 3380</td>
<td>Studies in Women's Literature</td>
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<td>PSCI 3353</td>
<td>Law and Gender</td>
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<td>PSCI 4357</td>
<td>Human Rights and the Rule of Law</td>
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<td>PSCI 4364</td>
<td>Civil Rights Law and Society</td>
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<td>PSY 3338</td>
<td>Adolescence</td>
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<td>PSY 4324</td>
<td>The Psychology of Prejudice</td>
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<td>PSY 4345</td>
<td>Violence in the Family</td>
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<td>PSY 4346</td>
<td>Human Sexuality</td>
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<td>PSY 4347</td>
<td>Marriage and Family Psychology</td>
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<tr>
<td>SOC 3343</td>
<td>Sociology of the Family</td>
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<td>SOC 3352</td>
<td>Sex, Gender and Society</td>
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<td>SOC 4375</td>
<td>Gender and Work</td>
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## Minor in Healthcare Studies: 18 semester credit hours

The Healthcare Studies minor is designed for students from any major who have an interest in pursuing a career in one of the healthcare fields. Students will learn important aspects of the health profession including appropriate terminology and the foundational elements of professionalism in the healthcare setting. Students will also gain an understanding of basic biological and medical principles related to human health and disease, the fundamental aspects of the history or philosophy of healthcare, and psychological, social, or economic issues associated with healthcare or the healthcare system in America.

This minor is well suited for traditional pre-health students (medicine, dentistry, pharmacy, and optometry) as well as those interested in allied health fields (physical therapy, physician assistant studies, clinical nutrition, etc.), public health, clinical psychology, and counseling. The minor in Healthcare Studies is designed for students from any major who have an interest in pursuing a career in one of the healthcare fields.

Required Courses in Health Career Development Foundations: 8 semester credit hours
HLTH 4304 Health Professions Internship
HLTH 1100 Career Explorations for the Health Professions
HLTH 3300 Pre-Health Professional Development
HLTH 3101 Medical Terminology

Electives: 10 semester credit hours

Choose two courses from the following:

Historical, Legal, and Philosophical Foundations
- HIST 3328 History and Philosophy of Science and Medicine
- PHIL 4320 Medical Ethics
- PHIL 4321 Philosophy of Medicine
- PSCI 4365 Law and Medicine

Biological Foundations
- BIOL 3370 Exercise Physiology
- BIOL 3455 Human Anatomy and Physiology with Lab I
- BIOL 3456 Human Anatomy and Physiology with Lab II
- HLTH 1322 Human Nutrition
- ISIS 2308 Bones, Bodies, and Disease
- ISIS 3306 Human Female: Biology and Culture
- NSC 3344 Anatomy and Physiology of Speech and Hearing
- NSC 4356 Neurophysiology
- NSC 4366 Neuroanatomy

Psychological, Social and Economic Foundations
- ECON 3330 Economics of Health
- HLTH 3301 Issues in Geriatric Healthcare
- PSY 4328 Health Psychology
- PSY 4346 Human Sexuality
- SOC 4372 Health and Illness
- SPAN 2341 Medical Spanish
Naveen Jindal School of Management (JSOM)
2015-16 Undergraduate Catalog

Degree Programs
Naveen Jindal School of Management

The Naveen Jindal School of Management's mission is to meet the challenges of a rapidly changing, technology-driven, global society by partnering with the business community to:

- Conduct research enhancing management knowledge;
- Deliver high quality management education to a diverse group of undergraduate and graduate students and practicing executives;
- Develop, innovate and continuously improve programs advancing management education and practice.

The Naveen Jindal School of Management is committed to providing our students with an outstanding educational experience that will expand and hone their skill sets, help them become leaders of business and leave them with strong career prospects. Focusing on the rapidly changing challenges of our technology-driven global society, many of the School's programs have been instituted in response to requests from business and designed to meet the needs of tomorrow's industry. Our programs stress innovations in the latest technologies while providing a foundation in the basics of business management.

The Bachelor of Science degree in Business Administration is designed to provide students with a broad preparation for a business career and to lay the foundation for further study in business administration. Emphasis is placed on problem solving techniques that are crucial in the modern business environment. The Bachelor of Science in Business Administration offers concentrations in Business Economics, Energy Management, Innovation and Entrepreneurship, Insurance, Organizational Behavior/Human Resources Management, Real Estate Investment Management, and Sales in addition to the general degree.

The program leading to the degree of Bachelor of Science in Accounting provides students a broad-based education that balances conceptual with pragmatic knowledge and exposes accounting students to other related areas. The objective of the program is to develop professionals who understand the role of information in organizations and financial markets; have the necessary skills to integrate financial analysis and information technology; and possess analytical and management functional area skills. Completion of this program will enable students to seek careers in information-intensive organizations as information managers, consultants or financial analysts. Students who desire a comprehensive accounting education and are seeking to become Certified Public Accountants are advised to pursue the 150 semester credit hour, BS and MS Fast-Track Program in Accounting. Students who successfully complete both degrees may choose to sit for the CPA examination upon completion of the 150 semester credit hour educational requirement of the Texas State Board of Public Accountancy.

The Bachelor of Science degree in Finance provides students with both practical and theoretical training in financial decision making. Students who choose this degree will have the opportunity to develop the skills required to analyze financial information to make sound personal or business financial decisions, as well as effectively manage theirs or others' investments. Completion of the degree requirements will permit students to seek careers with private companies, corporations, financial institutions, government agencies, or as consultants. In addition, with the appropriate choice of courses, a student should be able to successfully complete different financial industry certification exams that would enhance their careers.
The Bachelor of Science degree in Global Business provides students with the knowledge and skills required for succeeding as a global manager while developing an understanding of the cultural, political, and regulatory environments that shape international business and trade. Students who enroll in this program will learn the skills necessary for understanding the international business environments and financial markets, cross-cultural communication and negotiation, international human resource management, formulating and implementing global strategy, as well as marketing on a global basis. Completion of this program will enable students to seek careers in multinational corporations, consultancy firms, or internationally oriented organizations that operate in today’s increasingly globalized economy. This program requires a study abroad experience.

The Bachelor of Science degree in Healthcare Management prepares students with the specialized knowledge and skills to complete, lead, and succeed in the field of healthcare. The introductory class on healthcare introduces students to the breadth and scope of the industry. Additional healthcare-specific classes focus on the uniqueness of healthcare accounting, information systems, economics, law and regulatory environments. Completion of the program prepares students to respond to a changing and dynamic healthcare environment. Double majors with Biology and Molecular Biology are offered in conjunction with the Biology Department.

The Bachelor of Science degree in Information Technology and Systems provides students with both practical and theoretical training in information technology which has become an integral part of every aspect of business. The objective of the program is to prepare professionals who understand business processes and the information required to support them, have the IT expertise to automate, improve, and re-engineer business processes; and develop an ability to keep up with the changing technology and information needs of business. Completion of the degree requirements will permit students to seek careers as business analysts, application developers, and IT consultants in many industries including corporations and government agencies. With the appropriate choice of courses, a student should be able to successfully get certified in areas such as SAP, SAS Business Intelligence, and Information Security.

The Bachelor of Science degree in Marketing provides students with the necessary knowledge to make good marketing decisions. Students will be exposed to the theoretical foundations of marketing in addition to obtaining practical training needed to make decisions with respect to sales management, customer service, pricing, promotions, market research, and marketing strategy. Students will have the opportunity to develop their analytical and quantitative skills required to analyze marketing and sales data, to formulate strategic responses to competitive moves, and to develop long term and short term marketing plans. Students who complete this degree can seek careers in sales, marketing research, brand management, and advertising and promotions.

The Bachelor of Science in Supply Chain Management prepares students to recognize the needs of consumers and how to serve them better by designing, producing, and managing superior products and services with a ‘bottom line’ perspective. Students will also learn how to think strategically while focusing on effective analysis. The program places emphasis on three important elements: 1) supply chain management, 2) logistics and distribution, and 3) purchasing and sourcing. The secondary goal is to prepare students for a variety of roles in private, non-profit, and government sectors. Completion of degree requirements will prepare students for graduate study or entry-level management analyst positions in consultancy, operations, logistics and distribution, manufacturing, purchasing and sourcing, warehousing, information technology, and various other industrial sectors.

All degrees contain a central major core of 25-28 semester credit hours. In the major core courses, students have an opportunity to learn theories and analytical techniques that can be applied to the functional areas of business, such as finance and marketing. They are exposed to the international dimensions of business activities and to social and political factors that impinge on business behavior. A capstone course in strategic management provides an integrative experience where students are challenged to solve real world business problems. In addition, each student is expected to complete a minimum of 160 hours of business-related work to fulfill the
JSOM professional practicum requirement.

Fifty percent of the total business semester credit hours must be taken at UT Dallas. Students may use a maximum of 9 semester credit hours of online-only distance learning business courses toward their degree.

Students are also required to take courses outside the Naveen Jindal School of Management in order to broaden their educational experience in preparation for leadership roles as professionals and/or managers in the modern business organization.

**Faculty**


**Professor Emeritus:** Dale Osborne

**Clinical Professors:** John Barden, Britt Berrett, Abhijit Biswas, Pamela Foster Brady, Shawn Carraher, Larry Chasteen, David Cordell, Tevfik Dalgic, Michael Deegan, Howard Dover, Forney Fleming III, Randall S. Guttery, Charles Hazzard, Robert Hicks, Marilyn Kaplan, Peter Lewin, John F. McCracken, Dennis McCuistion, Radha Mookerjee, Joseph Picken, Divakar Rajaman, Kannan Ramanathan, Arthur Selender, Rajiv Shah, Kenneth Smith, Hable Woldu, Fang Wu, Laurie L. Ziegler

**Associate Professors:** Nina Baranchuk, Norris Bruce, Huseyin Cavusoglu, Jianqin Chen, Zhonglan Dai, Xianjun Geng, Umit G. Gurun, J. Richard Harrison, Surya N. Janakiraman, Robert L. Kieschnick Jr., Nanda Kumar, Seung-Hyun Lee, Livia Markóczy, Syam Menon, Toiyah Miller, Alp Muharremoglu, Ramachandran (Ram) Natarajan, Valery Polkovnichenko, Ashutosh Prasad, Orlando C. Richard, Young U. Ryu, Gil Sadka, Jane Salk, David J. Springate, Kelsey D. Wei, Jun Xia, Ying Xie, Yexiao Xu, Alejandro Zentner, Yuan Zhang, Feng Zhao, Zhiquiang (Eric) Zheng

**Clinical Associate Professors:** Sonia Leach, Carolyn Reichert, Kelly Slaughter, Mark Thouin, John McClain Watson

**Assistant Professors:** Mehmet Ayvaci, Emily Choi, Rebecca Files, Bernhard Ganglmair, Dorothee Honhon, Elisabeth Honka, Kyle Hyndman, Atanu Lahiri, Sheen Levine, Bin Li, Jun Li, Meng Li, Ningzhong Li, Virginie Lopez-Kidwell, Arzu Ozoguz, Anyan Qi, Alessio Saretto, Harpreet Singh, Gonca P. Soysal, Upender Subramanian, Shaojie Tang, Christian Von-Draaten, Malcolm Wardlaw, Han (Victor) Xia, Shengqi Ye, Nir Yehuda, Jieying Zhang, Xiaofei Zhao, Yibin Zhou

**Clinical Assistant Professors:** Hans-Joachim Adler, Shawn Alborz, Athena Alimirzaei, Moran Bluestein, Ayfer Gurun, Vance Lewis, Liping Ma, Dawn Owens, Anastasia V. Shcherbakova

**Senior Lecturers:** Arthur M. Aguinek, Semiramis Amirpour, Frank Anderson, Mark Anderson, Ronald Blair, Daniel Bochsler, Tiffany A. Bortz, Richard Bowen, Judd Bradford, Monica E. Brussolo, Shawn Carraher, Bobby Chang, George DeCourcy, Eugene (Gene) Deluke, Alexander Edsel, Amal El-Ashmawi, Carol Flannery, Mary Beth Goodrich, Maria Hasenhuttl, Julie Haworth, Thomas (Tom) Henderson, Jennifer G. Johnson, Lynn Carl Jones, Jackie Kinmey, Kristen Lawson, Chris Linsteadt, Jensy Maier, Diane S. McNulty, Madison Pedigo, Jared Pickens, Matt Polze, James Richards, Mark Salamasick, Avanti P. Sethi, Jeanne Sluder, Steven Solcher, James Szot, Luell (Lou) Thompson, Amy L. Troutman, Robert Wright, Kathy Zotlon

**Visiting Faculty:** Kyle Edgington, Harini Mittal
Davidson Management Honors Program

The Davidson Management Honors Program provides an intellectually challenging and stimulating academic experience in a unique learning environment for the best and brightest students. Incoming freshmen are considered for membership based on high school class rank; SAT/ACT scores; and leadership activities in high school. Other students that have earned at least a 3.500 grade point average (GPA) in a minimum of 15 semester credit hours at UT Dallas with no more than 60 semester credit hours of total college credit may also apply. To graduate with Management Honors students must have a minimum of a 3.500 GPA based on at least 30 graded semester credit hours at UT Dallas and complete an honors curriculum along with satisfying other program requirements. Management Honors with Distinction are awarded to students whose thesis is judged by the faculty to be of exemplary quality. Applications and detailed information are available in the Naveen Jindal School of Management Advising Office.

Professional Program in Accounting

The Professional Program in Accounting (PPA) is designed for students who wish to pursue a career in professional accounting. This program is a two-and-a-half year program beginning in the spring semester of the student's junior year. Qualified students will earn their Bachelor of Science in Accounting degree once all degree requirements for the bachelor's degree have been satisfied; additionally; the Master of Science in Accounting (MS-ACCT) degree will be awarded upon successful completion of requirements for that degree. The goals of the program are to place PPA students in professional accounting internships and full-time positions, increase networking opportunities among students with professionals, and prepare students to become Certified Public Accountants. Applications to the program are accepted in the fall semester of a student's junior year. Applications and detailed information are available in the Naveen Jindal School of Management Advising Office.

Fast Track Baccalaureate/Master's Degrees

Fast Track programs are designed to permit undergraduate students enrolled at UT Dallas to begin work on the MBA or MS degrees before graduation. Qualified seniors may take graduate courses in Management that will apply toward the Bachelor of Science degree and also satisfy requirements for the Master's degree. These courses are selected from a list determined by the School.

Fast Track courses taken during the undergraduate senior year must be well chosen so that they satisfy the requirements of the BS degree AND those of the intended MBA/MS degree. Students in one major may choose to Fast Track into another major. Students can take the Fast Track courses as substitutes for major related courses, as guided and/or free Electives. Students from other Schools at UT Dallas can Fast Track into JSOM degrees as long as they meet the Fast Track admission requirements. Students must earn a grade of at least B in Fast Track courses - otherwise the courses only count toward the undergraduate degree.

Students admitted to the Fast Track program are automatically admitted to the graduate program. Failure to meet any of the academic standards required by the graduate program can result in academic probation in the first semester of the graduate program. Students may delay for up to one year entering the graduate program and have their Fast Track courses count toward their graduate degree.

Students can also take graduate courses to apply toward either undergraduate or graduate credit. Students must submit an acceptable GMAT score and receive permission from the Associate Dean before taking more than 12 graduate semester credit hours for any use. Details of the programs are available from the Naveen Jindal School of Management Advising Office.
Fast Track Options in the Naveen Jindal School of Management

**Fast Track BS / MBA:** The MBA program is a 53 semester credit hour program. Qualified seniors may take up to 12 semester credit hours of graduate courses that will apply to the BS degree and the MBA degree.

**Fast Track BS / MS in Accounting:** The MS in Accounting is a 36 semester credit hour program. It is primarily designed to permit students to meet the educational requirements of the Texas State Board of Public Accountancy to become Certified Public Accountants. Qualified seniors may take up to 6 semester credit hours of graduate courses that will apply to the BS degree and the MS degree.

**Fast Track BS / MS in Business Analytics:** The program provides students with a broad foundation in the business intelligence and analytics area. The program includes core courses and analytics electives organized into different tracks. Students may choose a track in Marketing Analytics, Decision and Operations Analytics, Financial Analytics, Healthcare Analytics and IT for Analytics. Qualified seniors may take up to 9 semester credit hours of graduate courses that will apply to the Bachelor of Science degree and also satisfy the requirements for an MS degree.

**Fast Track BS / MS in Finance:** Students choose from four tracks. The investment management track permits students interested in career paths that require Chartered Financial Analyst CFA® certification to take the graduate finance courses that are required to master the complex topics covered on the CFA® examination. The financial analyst track is designed for students interested in pursuing corporate finance related careers (e.g., investment banking, venture capital, private equity, corporate turnarounds, etc.) The financial engineering and risk management track is designed for students with the quantitative ability to pursue a career applying quantitative methods to investment and risk management problems. The financial management track allows students to tailor their coursework for careers in a range of activities. Qualified seniors may take up to 9 semester credit hours of graduate courses that will apply to the Bachelor of Science degree and also satisfy the requirements for an MS degree.

**Fast Track BS / MS in Healthcare Management:** Students in the Business-Biology double major can Fast Track into this MS degree by selecting their business electives appropriately. Students in other majors can Fast Track into this degree by using free Electives for the Fast Track courses. Qualified seniors may take up to 9 semester credit hours of graduate courses that will apply to the Bachelor of Science degree and also satisfy the requirements for an MS degree.

**Fast Track BS / MS in Information Technology and Management:** Students may choose a concentration in Enterprise Systems, Healthcare Systems, and Information Security. Qualified seniors may take up to 9 semester credit hours of graduate courses that will apply to the Bachelor of Science degree and also satisfy the requirements for an MS degree.

**Fast Track BS / MS in Innovation and Entrepreneurship:** The program prepares students for successful careers in innovation-related roles in established organizations, entrepreneurial finance, or in the creation of new ventures. Students may choose between two focus areas: 1) The New Ventures Concentration, or 2) The Innovation within the Corporation Concentration. The program emphasizes technology-based innovation, consistent with and complementing UT Dallas' traditional strengths in science, engineering, computer science, and management disciplines. Qualified seniors may take up to 9 semester credit hours of graduate courses that will apply to the Bachelor of Science degree and also satisfy the requirements for an MS degree.

**Fast Track BS / MS in International Management Studies:** The program provides students the opportunity
to learn in-depth the fundamentals of functional areas of management, international management, and cultural, sociopolitical and geographical constraints affecting international business decisions. Qualified seniors may take up to 9 semester credit hours of graduate courses that will apply to the BS degree and also satisfy the requirements for the MS degree.

**Fast Track BS / MS in Management and Administrative Science:** Students may choose concentrations in Electronic Commerce, Strategy, and Innovation and Entrepreneurship. Qualified seniors may take up to 9 semester credit hours of graduate courses that will apply to the BS degree and also satisfy the requirements for an MS degree.

**Fast Track BS / MS in Marketing:** The program prepares students seeking higher level positions in marketing or pursuing a graduate program to further advance their marketing knowledge. The program includes core courses and electives organized into different tracks. Students may choose a track in Advertising and Brand Management, Business Development and Sales, Digital Advertising and Marketing, Marketing Analytics and Market Research, Marketing Management, and Product Management. Qualified seniors may take up to 9 semester credit hours of graduate courses that will apply to the Bachelor of Science degree and also satisfy the requirements for an MS degree.

**Fast Track BS / MS in Supply Chain Management:** Students explore the key issues associated with the design and management of industrial supply chains. Qualified seniors may take up to 9 semester credit hours of graduate courses that will apply to the BS degree and also satisfy the requirements for the MS degree.

**Minors**

Minors are available in Accounting, Business Administration, Business Intelligence and Analytics, Energy Management, Finance, Information Technology and Systems, Innovation and Entrepreneurship, Insurance, Marketing, and Organizational Behavior/Human Resource Management, and Sales. Students who take a minor will be expected to meet the normal prerequisites in courses making up the minor, and should maintain a minimum GPA of 2.000 on a 4.00 scale (C average).

All other prerequisites must be met. Semester credit hours may not be used to satisfy both the major and minor requirements; however, free elective semester credit hours or major preparatory classes may be used to satisfy the minor. The minors in the Naveen Jindal School of Management are the following:

- Accounting
- Business Administration
- Business Intelligence and Analytics
- Energy Management
- Finance
- Information Technology and Systems
- Innovation and Entrepreneurship
- Insurance
- Marketing
- Organizational Behavior/Human Resources Management

- Sales

Naveen Jindal School of Management

Faculty List Placeholder

Bachelor of Science in Accounting

Degree Requirements (120 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours
- COMM 1311 Survey of Oral and Technology-based Communication
- RHET 1302 Rhetoric

Mathematics: 3 semester credit hours
- MATH 1325 Applied Calculus I

Life and Physical Sciences: 6 semester credit hours
- Select any 6 semester credit hours from Life and Physical Sciences core courses (see advisor and degree requirements)

Language, Philosophy and Culture: 3 semester credit hours
- Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours
- Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours
- Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours
- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
- ECON 2301 Principles of Macroeconomics
Component Area Option: 6 semester credit hours

- **MATH 1326** Applied Calculus II
- **ECON 2302** Principles of Microeconomics

II. Major Requirements: 73 semester credit hours

**Major Preparatory Courses: 15 semester credit hours beyond core curriculum**

- **ACCT 2301** Introductory Financial Accounting
- **ACCT 2302** Introductory Management Accounting
- **BLAW 2301** Business and Public Law
- **ECON 2301** Principles of Macroeconomics
- **ECON 2302** Principles of Microeconomics
- **MATH 1325** Applied Calculus
- **MATH 1326** Applied Calculus II
- **OPRE 3333** Quantitative Business Analysis
  - or **MATH 2333** Matrices, Vectors, and Their Application
- **STAT 3360** Probability and Statistics for Management and Economics
  - or **OPRE 3360** Managerial Methods in Decision Making Under Uncertainty

**Major Core Courses: 28 semester credit hours**

- **ACCT 3100** Professional Development
- **BCOM 3310** Business Communication
- **BCOM 4350** Advanced Business Communication
- **FIN 3320** Business Finance
- **ITSS 3300** Introduction to Management Information Systems
- **OPRE 3310** Operations Management
- **OBHR 3310** Organizational Behavior
- **MKT 3300** Principles of Marketing
- **BPS 4305** Strategic Management
- **IMS 3310** International Business

**Major Related Courses: 18 semester credit hours**

- **ACCT 3331** Intermediate Financial Accounting I
- **ACCT 3332** Intermediate Financial Accounting II
- **ACCT 3341** Cost Management Systems
- **ACCT 3350** Fundamentals of Taxation
ACCT 4334 Auditing
ACCT 4342 Analysis and Design of Accounting Systems

Guided Electives: 12 semester credit hours
Electives may be any undergraduate chosen from a list of courses approved by the Director of Accounting Programs.
Students wishing to fast-track into the graduate program in accounting may take up to six semester credit hours of graduate ACCT electives.

III. Elective Requirements: 5 semester credit hours

Free Electives: 5 semester credit hours
Both lower- and upper-division courses may count as electives but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.
JSOM freshmen are required to take BA 1100 Business Basics.
Each student is expected to complete a minimum of 160 hours of business-related work to fulfill the JSOM professional practicum requirement.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.
2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.
3. Indicates a prerequisite class to be completed before enrolling for upper-division classes.
4. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.
5. Students may elect to substitute MATH 2413 and MATH 2414 or MATH 2417 and MATH 2419.
6. Students may substitute MATH 2418 or CS 2305.

Updated: September 4, 2014 - Visitor: 2219
Naveen Jindal School of Management

Bachelor of Science in Business Administration

Degree Requirements (120 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours
- COMM 1311 Survey of Oral and Technology-based Communication
- RHET 1302 Rhetoric

Mathematics: 3 semester credit hours
- MATH 1325 Applied Calculus I

Life and Physical Sciences: 6 semester credit hours
- Select any 6 semester credit hours from Life and Physical Sciences core courses (see advisor and degree requirements)

Language, Philosophy and Culture: 3 semester credit hours
- Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours
- Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours
- Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours
- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
- EC 2301 Principles of Macroeconomics

Component Area Option: 6 semester credit hours
II. Major Requirements: 61-67 semester credit hours (depending on the general or specific concentration plan)

Major Preparatory Courses: 15 semester credit hours beyond the core curriculum

- ACCT 2301 Introductory Financial Accounting
- ACCT 2302 Introductory Management Accounting
- AW 2301 Business and Public Accounting
- ECON 2301 Principles of Macroeconomics
- ECON 2302 Principles of Microeconomics
- MATH 1325 Applied Calculus I
- MATH 1326 Applied Calculus II
- OPRE 3313 Quantitative Business Analysis
  or MATH 2333 Matrices, Vectors, and Their Applications
- STAT 3360 Probability and Statistics for Management and Economics
  or OPRE 3360 Managerial Methods in Decision Making Under Uncertainty

Major Core Courses: 28 semester credit hours

- A 3100 Professional Development
- C M 3310 Business Communication
- C M 4350 Advanced Business Communication
- FIN 3320 Business Finance
- ITSS 3300 Information Technology for Business
- OPRE 3310 Operations Management
- P E 3310 Organizational Behavior
- M T 3300 Principles of Marketing
- PS 4305 Strategic Management
- IMS 3310 International Business

Major Related Courses: 18-24 semester credit hours (depending on the general or specific concentration plan)

Students may follow a general Business Administration degree plan or instead choose a concentration from the following:

- Energy Management
- Innovation and Entrepreneurship
Each Concentration has core courses plus concentration electives.

**General Business Option**: 18 semester credit hours

**Core course for General Business Option**
ENTP 3301 Innovation and Entrepreneurship

**General Business Option Electives**
Select 15 semester credit hours from the following with at least 1 course from 3 of the 6 groups:

- **Group 1: Management** - ENTP or OBHR prefixes
- **Group 2: Marketing** - MKT prefix
- **Group 3: Finance and Accounting** - ACCT, ENGY, FIN, MECO, REAL, or RMIS prefixes
- **Group 4: Information Systems** - ITS prefix
- **Group 5: Business Environment** - BCOM, BPS, BLAW, HMGT, or IMS prefixes
- **Group 6: Operations Management** - OPRE prefix

**Business Economics Concentration Core Courses (15 credit hours)**

- ECON 3310 Intermediate Microeconomic Theory
- ECON 3311 Intermediate Macroeconomic Theory
- FIN 3350 Macroeconomics and Financial Markets
- MECO 4331 Industrial Organization and Corporate Strategy
- MECO 4332 Applied Econometrics and Time Series Analysis

**Business Economics Concentration Electives (9 semester credit hours)**
Nine semester credit hours to be selected from:

- OPRE 4320 Logistics and Inventory Management
- FIN 3340 Regulation of Business and Financial Markets
- MECO 4342 Financial and Business Negotiation Analysis
- MKT 3340 Marketing Research

**Energy Management Concentration Core Courses (12 15 semester credit hours)**

- MECO 3300 or ENGY 3300 Introduction to Managing Energy
- FIN 4313 or ENGY 4313 Energy Finance
- MECO 3330 or ENGY 3330 Energy Economics
- MECO 4300 or ENGY 4300 Energy Land Management
- MKT 3340 Marketing Research

**Energy Management Concentration Electives (12 9 semester credit hours)**
Nine semester credit hours to be selected from:
OPRE 4330 Logistics and Inventory Management
MECO 4342 Financial and Business Negotiation Analysis
FIN 4340 Options and Futures Markets
FIN 4345 Financial Information and Analysis
BLAW 4301 International Law

Innovation and Entrepreneurship Concentration Core Courses: (15 semester credit hours)

**ENTP 3301 Innovation and Entrepreneurship**

**ENTP 3360 Entrepreneurial Finance**

or **FIN 3360 Entrepreneurial Finance**

**ENTP 4311 Entrepreneurial Strategy and Business Models**

**ENTP 4320 Small Business Management**

**ENTP 4350 Corporate Entrepreneurship**

Innovation and Entrepreneurship Concentration Electives: 9 semester credit hours selected from the following courses.

At least 3 semester credit hours must have an ENTP prefix.

**ENTP 3320 Start-up Launch I**

**ENTP 3321 Start-up Launch II**

**ENTP 4330 Entrepreneurial Marketing**

**ENTP 4340 Social Entrepreneurship**

**ENTP 4360 Innovation and Creativity**

**ENTP 4V00 Special Topics in Entrepreneurship**

**ENTP 4V90 Innovation and Entrepreneurship Internship**

**HMGT 3301 Introduction to Healthcare Management**

**IMS 4310 Export Market Development**

or **IMS 4320 International Marketing**

**MKT 3330 Introduction to Professional Selling**

**MKT 3340 Marketing Research**

**MKT 4330 Digital and Internet Marketing**

Another upper-division course may be substituted for the non-ENTP courses listed above with advance permission.

Insurance Concentration Core Courses: (15 semester credit hours)

**MIS 3370 or FIN 3370 Principles of Risk Management and Insurance**

**MIS 4331 Business Liability Risk Management and Insurance**

**MIS 4332 Commercial Property Risk Management and Insurance**

**MIS 4333 Business Risk Management**

**MIS 4334 Insurance Law and Contracts**

**MKT 3340 Market Research**

**RMIS 4331 Business Liability Risk Management and Insurance**

**RMIS 4332 Commercial Property Risk Management and Insurance**

**RMIS 4333 Business Risk Management**

**RMIS 4334 Insurance Law and Contracts**

Deletions and Formatting Adjustments:
- Deleted: MKT 3340 Market Research
- Deleted: Core Courses for the Innovation and Entrepreneurship Concentration
- Deleted: Guided
- Moved (insertion) [2]
- Deleted: The remaining Entrepreneurship Core Course not taken above (i.e., either ENTP 4320 Small Business Management or ENTP 4350 Corporate Entrepreneurship)
Insurance Concentration Electives: (9 semester credit hours)
- FIN 3330 Personal Financial Planning
- FIN 3305 or EA 3305 Real Estate Principles
- MECO 4342 Financial and Business Negotiation Analysis
- MECO 4365 Financial Aspects of Retirement and Employee Benefits
- M.T. 3340 Marketing Research

Organizational Behavior/Human Resources Management Concentration Core Courses:
- ENTRO 3301 Innovation and Entrepreneurship
- OBHR 3311 Principles of Management
- OBHR 3330 Introduction to Human Resource Management
- OBHR 4310 Business Ethics
- OBHR 4360 Capstone in Organizational Behavior

Organizational Behavior/Human Resources Management Concentration Electives: (9 semester credit hours)
Nine semester credit hours to be selected from:
- OBHR 3320 Groups and Teams
- OBHR 4300 Management of Non-Profit Organizations
- OBHR 4333 Performance Management
- OBHR 4334 Talent Acquisition and Management
- OBHR 4350 Introduction to Leading and Managing
- OBHR 4352 Negotiation and Dispute Resolution
- OBHR 4354 Leading Organizational Change
- OBHR 4356 Power and Influence in Organizations
- OBHR 4358 Transformational Leadership, Ethics, and Social Responsibility

Real Estate Concentration Electives: (15 semester credit hours)
- EA 3305 Real Estate Principles
- EA 3365 Real Estate Finance and Principles
- EA 4321 Real Estate Law and Contracts

Fifteen semester credit hours to be selected from:
Any JSOM upper level courses, PA 3377, GISC 4V96, MECO 4342, REAL 4328, REAL 4V80

Sales Concentration Core Courses: (12 semester credit hours)
- M: T 3330 Introduction to Professional Sales
- M: T 43312 Digital Prospecting
- H: 3311 Principles of Management
- H: 4352 Negotiation and Dispute Resolution

Sales Concentration Electives: (12 semester credit hours)
- C: M 4310 Strategic Business Communications
- F: 3305 or F: A 3305 Real Estate Principles
- HGMT 3301 Introduction to Healthcare Management
- M: T 3320 Product and Brand Management
- M: T 4332 Advanced Personal Selling
- M: T 4333 Retailing and Distribution
- H: 4310 Business Ethics
- M: T 4V90 Marketing Internship*

*A three credit hour internship may be used for ONE sales elective. All internships must be approved by the program.

III. Elective Requirements: 11-17 semester credit hours (depending on the general or specific concentration plan)
Free Electives: 11-17 semester credit hours

Both lower- and upper-division courses may count as electives but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

JSOM freshmen are required to take BA 1100 Business Basics.

Each student is expected to complete a minimum of 160 hours of business-related work to fulfill the JSOM professional practicum requirement.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major requirements at UT Dallas.

3. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

4. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

5. Students may elect to substitute MATH 2413 and MATH 2414 or MATH 2417 and MATH 2419.

6. Students may substitute MATH 2418 or CS 2305.
Naveen Jindal School of Management

Faculty List Placeholder

Bachelor of Science in Finance

Degree Requirements (120 semester credit hours)1

I. Core Curriculum Requirements: 42 semester credit hours2

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

MATH 1325 Applied Calculus I

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses (see advisor and degree requirements)

Language, Philosophy and Culture: 3 semester credit hours

Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours

Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours

GOVT 2305 American National Government
GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

ECON 2301 Principles of Macroeconomics
Component Area Option: 6 semester credit hours

**MATH 1326** Applied Calculus II

**ECON 2302** Principles of Microeconomics

II. Major Requirements: 73 semester credit hours

Major Preparatory Courses: 15 semester credit hours beyond the core curriculum

- **ACCT 2301** Introductory Financial Accounting^3
- **ACCT 2302** Introductory Management Accounting^3
- **BLAW 2301** Business and Public Law^3
- **ECON 2301** Principles of Macroeconomics^1,4
- **ECON 2302** Principles of Microeconomics^3,4
- **MATH 1325** Applied Calculus ^3,4,5
- **MATH 1326** Applied Calculus II ^3,4,5
- **OPRE 3333** Quantitative Business Analysis^3
  - or **MATH 2333** Matrices, Vectors, and Their Application^3,6
- **STAT 3360** Probability and Statistics for Management and Economics
  - or **OPRE 3360** Managerial Methods in Decision Making Under Uncertainty

Major Core Courses: 28 semester credit hours

- **FIN 3100** Professional Development
- **BCOM 3310** Business Communication
- **BCOM 4350** Advanced Business Communication
- **FIN 3320** Business Finance
- **ITSS 3300** Information Technology for Business
- **OPRE 3310** Operations Management
- **OBHR 3310** Organizational Behavior
- **MKT 3300** Principles of Marketing
- **BPS 4305** Strategic Management
- **IMS 3310** International Business

Major Related Courses: 9 semester credit hours

- **FIN 3390** Introduction to Financial Modeling
- **FIN 3330** Personal Financial Planning
- **FIN 4310** Intermediate Business Finance

Elective Courses: 21 semester credit hours
Students must select no less than 21 semester credit hours of upper-division course work from the following list of courses: FIN 3305, FIN 3340, FIN 3350, FIN 3360, FIN 3365, FIN 3370, FIN 3380, FIN 3390, FIN 4300, FIN 4315, FIN 4331, FIN 4332, FIN 4333, FIN 4337, FIN 4380, FIN 4390, FIN 4399, FIN 4V80, or FIN 4V90.

Students may substitute up to 6 semester credit hours for the above upper-division course work from the following list of courses: ACCT 3331, ACCT 3332, ACCT 3341, ACCT 3350, or ACCT 4336.

Finance Tracks

Students pursuing a Bachelor of Science in Finance will be best prepared for certain career paths if they follow the below recommended course work for each of the below tracks, but they are not required to do so.

Corporate Finance Track - Students who choose this track will focus on the skills necessary to manage the financial problems of a firm. Students completing this track pursue careers as corporate financial officers, private equity capitalists, and investment bankers.

Recommended coursework (21 semester credit hours): FIN 3350, FIN 3380, (FIN 4337 or ACCT 4337), FIN 4340, FIN 4345, ACCT 3331, ACCT 3332, ACCT 3350, or FIN 4V90.

Investment Track - Students who choose to concentrate in the Investment track study to become investment analysts and investment advisors. Careers in this field include security analysts, portfolio managers, etc. Students who complete this track should be prepared to take the CFA® level 1 exam.

Recommended coursework (21 semester credit hours): FIN 3340, FIN 3350, FIN 4300, (FIN 4315 or FIN 4337), FIN 4340, FIN 4345, FIN 4380, ACCT 3331.

Personal Financial Planning - Students who choose this track will learn how to become financial planners and help clients with their financial problems. Students who complete this track meet the educational requirements set forth for the CFP® Board of Standards, Inc.

Recommended coursework (21 semester credit hours): FIN 3305, FIN 3370*, FIN 4300*, FIN 4330*, FIN 4335*, ACCT 3350, and FIN 4380 or FIN 4V90.

* Notates classes required by the CFP® Board of Standards, Inc. to fulfill the educational requirement for the CERTIFIED FINANCIAL PLANNER™ Designation.

Real Estate Investment Management Track - Students who choose this track will learn both the qualitative and quantitative tools necessary to enter one of the many different areas within real estate including investment analysis, consulting, brokerage, appraisal, development and corporate asset management.

Recommended coursework (21 semester credit hours): FIN 3305, FIN 3350, FIN 3365, FIN 3370, FIN 3380 (FIN 4321 or FIN 4V90), ACCT 3350, .
Insurance Track – Students who choose this track will learn both the qualitative and quantitative tools necessary to enter one of the many different areas within the risk management and insurance industries.

Recommended Coursework (21 semester credit hours): FIN 3305, (FIN 3370 or RMIS 3370), RMIS 3331, RMIS 4333, RMIS 4334, FIN 4335, FIN 4340 or FIN 4V90.

Financial Institutions Track – Students who choose this track will learn the concepts and skills necessary to pursue a career within different financial institutions (e.g., bank, commercial finance companies, mortgage finance companies, etc.).

Recommended Coursework (21 semester credit hours): FIN 3305, FIN 3340, FIN 3350, FIN 3370, FIN 4300, FIN 4320, FIN 4340, FIN 4345, or FIN 4V90.

III. Elective Requirements: 5 semester credit hours

Both lower- and upper-division courses may count as electives but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

JSOM freshmen are required to take BA 1100, Business Basics.

Each student is expected to complete a minimum of 160 hours of business-related work to fulfill the JSOM professional practicum requirement.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

4. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

5. Students may elect to substitute MATH 2413 and MATH 2414 or MATH 2417 and MATH 2419.

6. Students may substitute MATH 2418 or CS 2305.

Updated: September 4, 2014 - Visitor: 1100
Naveen Jindal School of Management

Bachelor of Science in Finance and Economics (Double Major)

Degree Requirements (127 semester credit hours)\(^1,2\)

I. Core Curriculum Requirements: 42 semester credit hours\(^3\)

Communication: 6 semester credit hours

\[\text{COMM 1311} \quad \text{Survey of Oral and Technology-based Communication}\]
\[\text{RHET 1302} \quad \text{Rhetoric}\]

Mathematics: 3 semester credit hours

\[\text{MATH 1325} \quad \text{Applied Calculus I} \quad 4, 5, 6\]

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses (see advisor and degree requirements)

Language, Philosophy and Culture: 3 semester credit hours

Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours

Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours

\[\text{GOVT 2305} \quad \text{American National Government}\]
\[\text{GOVT 2306} \quad \text{State and Local Government}\]

Social and Behavioral Sciences: 3 semester credit hours

\[\text{ECON 2301} \quad \text{Principles of Macroeconomics} \quad 4, 5\]
II. Major Requirements: 67 semester credit hours

Major Preparatory Courses: 15 semester credit hours beyond Core Curriculum

- ACCT 2301 Introductory Financial Accounting
- ACCT 2302 Introductory Management Accounting
- BLAW 2301 Business and Public Law
- ECON 2301 Principles of Macroeconomics
- ECON 2302 Principles of Microeconomics
- MATH 1325 Applied Calculus I
- MATH 1326 Applied Calculus II
- MATH 2333 Matrices, Vectors and Their Application
  or OPRE 3333 Quantitative Business Analysis
- OPRE 3360 Managerial Methods in Decision Making Under Uncertainty
  or STAT 3360 Probability and Statistics for Management and Economics

Major Core Courses: 52 semester credit hours

- FIN 3100 Professional Development
- BCOM 3310 Business Communication
- BCOM 4350 Advanced Business Communication
- FIN 3320 Business Finance
- FIN 3330 Personal Financial Planning
- ITSS 3300 Information Technology for Business
- OPRE 3310 Operations Management
- OBHR 3310 Organizational Behavior
- MKT 3300 Principles of Marketing
- FIN 3390 Introduction to Financial Modeling
- BPS 4305 Strategic Management
- FIN 4310 Intermediate Business Finance
- IMS 3310 International Business
- ECON 3310 Intermediate Microeconomic Theory

- ECON 3311 Intermediate Macroeconomic Theory
III. Elective Requirements: 18 semester credit hours

Guided Electives

Select 9 semester credit hours from: FIN 3305, FIN 3340, FIN 3350, FIN 3365, FIN 3380, FIN 4313, FIN 4315, FIN 4320, FIN 4321, FIN 4340, FIN 4345, FIN 4380, FIN 4390, FIN 4V90.

Select 9 semester credit hours from: ECON 3312, ECON 3335, ECON 4301, ECON 4310, ECON 4320, ECON 4345, ECON 4360, ECON 4382, ECON 4385, ECON 4396, or ECON 4V99.

Each student is expected to complete a minimum of 160 semester credit hours of business-related work to fulfill the JSOM professional practicum requirement.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Degree is 128 semester credit hours if student is required to take BA 1110 or EPPS 1110.

3. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

4. Indicates a prerequisite class to be completed before enrolling for upper-division classes in Economics and Finance.

5. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

6. Students may substitute MATH 2313 and MATH 2414 or MATH 2417 and MATH 2419.

7. Students may substitute MATH 2418, OPRE 3333 or CS 2305.
Naveen Jindal School of Management

Faculty List Placeholder

Bachelor of Science in Global Business

Degree Requirements (120 semester credit hours)\(^1\)

A minimum of 9 semester credit hours must be earned during a semester of study abroad. Any 9 semester credit hours from the degree plan may be chosen, however, students should be aware that study abroad courses are subject to a pre-approval process to ensure transferability.\(^2\)

I. Core Curriculum Requirements: 42 semester credit hours\(^3\)

Communication: 6 semester credit hours

- **COMM 1311** Survey of Oral and Technology-based Communication
- **RHET 1302** Rhetoric

Mathematics: 3 semester credit hours

- **MATH 1325** Applied Calculus I

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses (see advisor and degree requirements)

Language, Philosophy and Culture: 3 semester credit hours

Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours

Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours

- **GOVT 2305** American National Government
- **GOVT 2306** State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
II. Major Requirements: 73 semester credit hours

Major Preparatory Courses: 15 semester credit hours beyond Core Curriculum

- **ACCT 2301** Introductory Financial Accounting
- **ACCT 2302** Introductory Management Accounting
- **BLAW 2301** Business and Public Law
- **ECON 2301** Principles of Macroeconomics
- **ECON 2302** Principles of Microeconomics
- **MATH 1325** Applied Calculus I
- **MATH 1326** Applied Calculus II
- **OPRE 3333** Quantitative Business Analysis
  or **MATH 2333** Matrices, Vectors, and Their Application
- **STAT 3360** Probability and Statistics for Management and Economics
  or **OPRE 3360** Managerial Methods in Decision Making Under Uncertainty

Major Core Courses: 28 semester credit hours

- **IMS 3100** Professional Development
- **BCOM 3310** Business Communication
- **BCOM 4350** Advanced Business Communication
- **FIN 3320** Business Finance
- **ITSS 3300** Introduction to Technology for Business
- **OPRE 3310** Operations Management
- **OBHR 3310** Organizational Behavior
- **MKT 3300** Principles of Marketing
- **BPS 4305** Strategic Management
- **IMS 3310** International Business

Major Related Courses: 18 semester credit hours

- **IMS 4320** International Marketing
- **FIN 3380** International Financial Management
Guided Electives: 12 semester credit hours

Select 12 semester credit hours from one of the following tracks:

**Global Business Track**
- **IMS 4330** Global Human Resource Management
- **IMS 4373** Global Strategy

Six semester credit hours of the same foreign language. May include 3 semester credit hours from **BCOM 3320, BCOM 3321, BCOM 3322, BCOM 3323**.

**Finance Track**
- **FIN 3330** Personal Financial Planning
- **FIN 3350** Macroeconomics and Financial Markets
- **FIN 3340** Regulation of Business and Financial Markets
- **FIN 3305** Real Estate Principles

**IT Track**
- **ITSS 4300** Database Fundamentals
- **ITSS 4340** Enterprise Resource Planning
- **ITSS 4353** Business Analytics
- **ITSS 4352** Introduction to Web Analytics
- **ITSS 4360** Network and Information Security

**Marketing Track**
- **MKT 3340** Marketing Research
- **MKT 3320** Product and Brand Management
- **MKT 3330** Introduction to Professional Selling
- **MKT 4330** Digital and Internet Marketing
- **MKT 4340** Consumer Behavior

**Faculty led foreign study trip**
- **GEOG 3370** The Global Economy
- **ECON 4360** International Trade
Supply Chain Management Track

OPRE 3330 Project Management
  OPRE 4340 Purchasing and Sourcing Management
  OPRE 3320 Supply Chain Management
  OPRE 4350 Global Outsourcing Services
  OPRE 4330 Logistics and Inventory Management

Innovation & Entrepreneurship Track

ENTP 3301 Innovation and Entrepreneurship
And choose any 3 courses from the following:
  ENTP 3360 Entrepreneurial Finance
  or FIN 3360 Entrepreneurial Finance
  ENTP 4311 Entrepreneurial Strategy and Business Models
  ENTP 4320 Small Business Management
  ENTP 4350 Corporate Entrepreneurship
  ENTP 4340 Social Entrepreneurship

International Political Economy Track

IPEC 3349 World Resources and Development
  GEOG 3372 Population and Development
  PSCI 4356 International Political Economy
  PSCI 4329 Global Politics
  PSCI 4347 The War on Drugs
  PSCI 4348 Terrorism
  GEOG 3359 Human Migration and Mobility: Global Patterns
  PSCI 4360 The Political Economy of Multinational Corporations
  PSCI 4359 Globalization and International Conflict
  PSCI 4332 Latin American Politics

SOC 3336 Culture Regions
  GEOG 3382 Russia: Yesterday, Today, and Tomorrow

III. Elective Requirements: 5 semester credit hours

Free Electives: 5 semester credit hours
Both lower- and upper-division courses may count as electives but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.
JSOM freshmen are required to take BA 1100 Business Basics.
Each student is expected to complete a minimum of 160 hours of business-related work to fulfill the JSOM professional practicum requirement.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Students with non-academic obligations (for example, full time jobs) who cannot study abroad for an entire semester may request a waiver to substitute 6 semester credit hours of faculty led study trips (IMS 3V91, IMS 3V92, IMS 3V93, IMS 3V94, IMS 3V95, IMS 3V96). An international internship may also be substituted for the semester of study abroad.

3. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

4. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

5. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

6. Students may elect to substitute MATH 2413 and MATH 2414 or MATH 2417 and MATH 2419.

7. Students may substitute MATH 2418 or CS 2305.
Naveen Jindal School of Management

Faculty List Placeholder

Bachelor of Science in Global Business and International Political Economy (Double Major)

Degree Requirements (142 semester credit hours)¹

A minimum of 9 semester credit hours must be earned during a semester of study abroad. Any 9 semester credit hours from the degree plan may be chosen, however, students should be aware that study abroad courses are subject to a pre-approval process to ensure transferability.²

I. Core Curriculum Requirements: 42 semester credit hours³

Communication: 6 semester credit hours

- COMM 1311 Survey of Oral and Technology-based Communication
- RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

- MATH 1325 Applied Calculus I ⁴, ⁵, ⁶

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses (see advisor and degree requirements)

Language, Philosophy and Culture: 3 semester credit hours

Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours

Select any 6 semester credit hours from American History core courses (see advisor)
Government / Political Science: 6 semester credit hours

- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

- ECON 2301 Principles of Macroeconomics

Component Area Option: 6 semester credit hours

- MATH 1326 Applied Calculus II
- ECON 2302 Principles of Microeconomics

II. Major Requirements: 100 semester credit hours

Global Business Major Preparatory Courses: 15 semester credit hours beyond Core Curriculum

- ACCT 2301 Introductory Financial Accounting
- ACCT 2302 Introductory Management Accounting
- BLAW 2301 Business and Public Law
- ECON 2301 Principles of Macroeconomics
- ECON 2302 Principles of Microeconomics
- MATH 1325 Applied Calculus I
- MATH 1326 Applied Calculus II
- OPRE 3333 Quantitative Business Analysis
  or MATH 2333 Matrices, Vectors, and Their Application
- STAT 3360 Probability and Statistics for Management and Economics
  or OPRE 3360 Managerial Methods in Decision Making Under Uncertainty

Major Core Courses: 28 semester credit hours

- IMS 3100 Professional Development
- BCOM 3310 Business Communication
- BCOM 4350 Advanced Business Communication
- FIN 3320 Business Finance
- JTSS 3300 Information Technology for Business
- OPRE 3310 Operations Management
- OBHR 3310 Organizational Behavior
- MKT 3300 Principles of Marketing
- BPS 4305 Strategic Management
- IMS 3310 International Business

Comment [MJ1]: Should we keep this as Major Requirements then add a Global Business Requirements? See the current Bus Admin/Biol double major. Agreed by Kaplan, 1-8-15.
Major Related Courses: 12 semester credit hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMS 4320</td>
<td>International Marketing</td>
</tr>
<tr>
<td>FIN 3380</td>
<td>International Financial Management</td>
</tr>
<tr>
<td>IMS 4330</td>
<td>Global Human Resource Management</td>
</tr>
<tr>
<td>IMS 4373</td>
<td>Global Strategy</td>
</tr>
</tbody>
</table>

International Political Economy (IPEC) Core Courses: 21 semester credit hours

Choose 7 courses from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 3310</td>
<td>Intermediate Microeconomic Theory</td>
</tr>
<tr>
<td>ECON 3311</td>
<td>Intermediate Macroeconomic Theory</td>
</tr>
<tr>
<td>ECON 4360</td>
<td>International Trade</td>
</tr>
<tr>
<td>IPEC 3349</td>
<td>World Resources and Development</td>
</tr>
<tr>
<td>IPEC 4301</td>
<td>Political Economy of Industrialized Countries</td>
</tr>
<tr>
<td>IPEC 4302</td>
<td>Political Economy of Developing Countries</td>
</tr>
<tr>
<td>PSCI 4329</td>
<td>Global Politics</td>
</tr>
<tr>
<td>PSCI 4356</td>
<td>International Political Economy</td>
</tr>
<tr>
<td>PSCI 4360</td>
<td>The Political Economy of Multinational Corporations</td>
</tr>
</tbody>
</table>

Foreign Language Requirement: 12 semester credit hours of the same language

If the language credit is obtained without taking classes, twelve additional semester credit hours of Free Electives (upper-division or lower-division) can be taken by student. May include 3 semester credit hours from BCOM 3320, BCOM 3321, BCOM 3322, BCOM 3323.

Upper-Division Major Related Electives: 12 semester credit hours

All students are required to take at least twelve semester credit hours of electives from IPEC or other approved courses.

Both lower- and upper-division courses may count as electives but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

JSOM / EPPS freshmen are required to take BA 1100 Business Basics or EPPS 1110 Freshman Seminar.

Each student is expected to complete a minimum of 160 hours of business-related work to fulfill the JSOM professional practicum requirement.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT...
1. Dallas must take UNIV 2020.

2. Students with non-academic obligations (for example, full time jobs) who cannot study abroad for an entire semester may request a waiver to substitute 6 semester credit hours of faculty led study trips (IMS 3V91, IMS 3V92, IMS 3V93, IMS 3V94, IMS 3V95, IMS 3V96). An international internship may also be substituted for the semester of study abroad.

3. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

4. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

5. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

6. Students may elect to substitute MATH 2413 and MATH 2414 or MATH 2417 and MATH 2419.

7. Students may substitute MATH 2418 or CS 2305.
Naveen Jindal School of Management

Faculty List Placeholder

Bachelor of Science in Healthcare Management

Degree Requirements (120 semester credit hours)¹

I. Core Curriculum Requirements: 42 semester credit hours²

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

MATH 1325 Applied Calculus I

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses (see advisor and degree requirements)

Language, Philosophy and Culture: 3 semester credit hours

Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours

Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours

GOVT 2305 American National Government
GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

ECON 2301 Principles of Macroeconomics
Component Area Option: 6 semester credit hours

- MATH 1326 Applied Calculus II
- ECON 2302 Principles of Microeconomics

II. Major Requirements: 70 semester credit hours beyond Core Curriculum

Major Preparatory Courses: 15 semester credit hours beyond Core Curriculum

- ACCT 2301 Introductory Financial Accounting
- ACCT 2302 Introductory Management Accounting
- BLAW 2301 Business and Public Law
- ECON 2301 Principles of Macroeconomics
- ECON 2302 Principles of Microeconomics
- MATH 1325 Applied Calculus
- MATH 1326 Applied Calculus
- OPRE 3333 Quantitative Business Analysis
  - or MATH 2333 Matrices, Vectors, and Their Application
- OPRE 3360 Managerial Methods in Decision Making Under Uncertainty
  - or STAT 3360 Probability and Statistics for Management and Economics

Business Core Courses: 28 semester credit hours

- HMGT 3100 Professional Development
- BCOM 3310 Business Communication
- BCOM 4350 Advanced Business Communication
- BPS 4305 Strategic Management
- FIN 3320 Business Finance
- ITSS 3300 Information Technology for Business
- OBHR 3310 Organizational Behavior
- OPRE 3310 Operations Management
- MKT 3300 Principles of Marketing
- IMS 3310 International Business

Healthcare Management Core Courses: 18 semester credit hours

- HMGT 3301 Introduction to Healthcare Management
- ECON 3330 Economics of Health
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMGT 3311</td>
<td>Healthcare Accounting</td>
</tr>
<tr>
<td>HMGT 4321</td>
<td>Introduction to Healthcare Information Systems</td>
</tr>
<tr>
<td>HMGT 3310</td>
<td>Healthcare Regulatory Environment</td>
</tr>
<tr>
<td>HMGT 4351</td>
<td>Management, Design and Optimization of Healthcare Processes</td>
</tr>
</tbody>
</table>

**Healthcare Management Upper-Division Guided Electives: 6 semester credit hours**

Choose two of the following:

- HMGT 4341 Human Resource Management in Healthcare Organizations
- HMGT 4V90 Healthcare Management Internship

**Healthcare Management Upper-Division Guided Electives: 6-9 semester credit hours**

Choose three courses from the following:

- HMGT 4341 Human Resource Management in Healthcare Organizations
- HMGT 4V90 Healthcare Management Internship
- ENTP 3301 Innovation and Entrepreneurship
- ENTP 4320 Small Business Management
- HLTH 3101 Medical Terminology
- HLTH 3301 Issues in Geriatric Healthcare
- ITSS 4300 Database Fundamentals
- ITSS 4351 *Introduction to Foundations of Business Intelligence and Data Mining*
- MKT 4331 Digital Prospecting
- PSCI 4365 Law and Medicine
- OBHR 3311 Principles of Management
- OBHR 4300 Management of Non-Profit Organizations
- OBHR 4310 Business Ethics
- OBHR 4352 Negotiation and Dispute Resolution
- OBHR 4360 *Advanced Organizational Behavior and Leadership Capstone in Organizational Behavior*
- OPRE 3330 Project Management

*Comment [MV1]:* HMGT 4341 to be removed in 2015 catalog; add another course? No per Kaplan, 1-8-15. Yes – readjusted per Kaplan 2-2-15 email.

*Comment [MJ2]:* Increased from 6 to 9 per Kaplan, 2-2-15 email.

*Deleted:* PMGT 4351 Hospital Administration

*Moved (insertion) [2]:* HMGT 4351 Management, Design and Optimization of Healthcare Processes

*Moved (insertion) [3]:* HMGT 4V90 Healthcare Management Internship

*Deleted:* ECON 3330 Economics of Health
III. Elective Requirements: 8 semester credit hours

**Free Electives: 8 semester credit hours**

Both lower- and upper-division courses may count as electives but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

JSOM freshmen are required to take BA 1100 Business Basics.

Each student is expected to complete a minimum of 160 hours of business-related work to fulfill the JSOM professional practicum requirement.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas, must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

4. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

5. Students may elect to substitute MATH 2413 and MATH 2414 or MATH 2417 and MATH 2419.

6. Students may substitute MATH 2418 or CS 2305.

7. A practicum experience is required; the student has the option of zero to 3 semester credit hours, depending on the particular internship, and preference for additional electives.
Naveen Jindal School of Management

Faculty List Placeholder

Bachelor of Science in Healthcare Management and Biology (Double Major)

Degree Requirements (149 semester credit hours)¹,²

I. Core Curriculum Requirements: 42 semester credit hours³

Communication: 6 semester credit hours

- **COMM 1311** Survey of Oral and Technology-based Communication
- **RHET 1302** Rhetoric

Mathematics: 3 semester credit hours

- **MATH 2413** Differential Calculus

Life and Physical Sciences: 6 semester credit hours

- **CHEM 1311** General Chemistry I⁴
- **CHEM 1312** General Chemistry II⁴

Language, Philosophy and Culture: 3 semester credit hours

Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours

Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours

- **GOVT 2305** American National Government
- **GOVT 2306** State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

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¹,²,³,⁴ Note: The specific course codes and descriptions may vary, so it's important to consult the current catalog or academic advisor for the most accurate and up-to-date information.
II. Major Requirements: 92 semester credit hours

Business Major Preparatory Courses: 16 semester credit hours beyond Core Curriculum

- **ACCT 2301** Introductory Financial Accounting
- **ACCT 2302** Introductory Management Accounting
- **HMGT 3100** Professional Development
- **BLAW 2301** Business and Public Law
- **ECON 2301** Principles of Macroeconomics
- **ECON 2302** Principles of Microeconomics
- **OPRE 3333** Quantitative Business Analysis
  - or **MATH 2333** Matrices, Vectors, and Their Application
- **STAT 3360** Probability and Statistics for Management and Economics
  - or **STAT 2332** Introductory Statistics for Life Sciences
  - or **OPRE 3360** Managerial Methods in Decision Making Under Uncertainty

Business Core Courses: 27 semester credit hours

- **BCOM 3310** Business Communication
- **BCOM 4350** Advanced Business Communication
- **FIN 3320** Business Finance
- **ITSS 3300** Information Technology for Business
- **OPRE 3310** Operations Management
- **OBHR 3310** Organizational Behavior
- **MKT 3300** Principles of Marketing
- **BPS 4305** Strategic Management
- **IMS 3310** International Business

Biology Major Preparatory Courses: 20 semester credit hours beyond Core Curriculum

- **CHEM 1111** General Chemistry Laboratory I
- **CHEM 1112** General Chemistry Laboratory II
- **CHEM 1311** General Chemistry I
- **CHEM 1312** General Chemistry II

Comment [MV1]: This should be 20 SCH beyond core curriculum without counting CHEM 1311, CHEM 1312, MATH 2413, and MATH 2414; these 4 courses are already counted in core. We only count the extra 1 hour for the math courses each (total 2 SCH).
CHEM 2123 Introductory Organic Chemistry Laboratory I
CHEM 2125 Introductory Organic Chemistry Laboratory II
CHEM 2323 Introductory Organic Chemistry I
CHEM 2325 Introductory Organic Chemistry II
MATH 2413 Differential Calculus
MATH 2414 Integral Calculus
PHYS 2325 Mechanics and PHYS 2125 Physics Laboratory I
or PHYS 1301 College Physics I and PHYS 2125 Physics Laboratory I
PHYS 2326 Electromagnetism and Waves and PHYS 2126 Physics Laboratory II
or PHYS 1302 College Physics II and PHYS 2126 Physics Laboratory II

Biology Core Courses: 29 semester credit hours

BIOL 2111 Introduction to Modern Biology Workshop I
BIOL 2112 Introduction to Modern Biology Workshop II
BIOL 2281Introductory Biology Laboratory
BIOL 2311 Introduction to Modern Biology I
BIOL 2312 Introduction to Modern Biology II
BIOL 3101 Classical and Molecular Genetics Workshop
BIOL 3102 Eukaryotic Molecular and Cell Biology Workshop
BIOL 3161 Biochemistry Workshop I
BIOL 3162 Biochemistry Workshop II
BIOL 3301 Classical and Molecular Genetics
BIOL 3302 Eukaryotic Molecular and Cell Biology
BIOL 3361 Biochemistry I
BIOL 3362 Biochemistry II
or BIOL 3335 Microbial Physiology
BIOL 3380 Biochemistry Laboratory

III. Elective Requirements: 15 semester credit hours

Guided Electives: 15 semester credit hours

Healthcare Management Core Courses: 12 semester credit hours

HMGT 3301 Introduction to Healthcare Management
HMGT 3311 Healthcare Accounting
HMGT 4321 Introduction to Healthcare Information Systems

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Deleted: Business: (9 semester credit hours) to be selected from any upper-level JSOM course. If qualified, the student may select from JSOM graduate courses.¶
HMGT 3310 Healthcare Regulatory Environment

Biology (3 semester credit hours):
BIOL 4380 Cell and Molecular Biology Laboratory or approved upper-level biology course.

Each student is expected to complete a minimum of 160 hours of business-related work to fulfill the JSOM professional practicum requirement.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Degree is 150 semester credit hours if students are required to take BA 1100 or NATS 1100.

3. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

4. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

5. Six semester credit hours of Calculus are counted under Mathematics Core and Component Area Option Core, and 2 semester credit hours of Calculus are counted as Biology Major Preparatory Courses.

6. Students may substitute MATH 2413 and MATH 2414 by taking MATH 2417 and MATH 2419.

7. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

8. Students may substitute MATH 2418 or CS 2305.
Naveen Jindal School of Management

Bachelor of Science in Healthcare Management and Molecular Biology (Double Major)

Degree requirements (153 semester credit hours)\(^1,2\)

I. Core Curriculum requirements: 42 semester credit hours\(^3\)

**Communication:** 6 semester credit hours

- COMM 1311 Survey of Oral and Technology-based Communication
- RHET 1302 Rhetoric

**Mathematics:** 3 semester credit hours

- MATH 2417 Calculus I

**Life and Physical Sciences:** 6 semester credit hours

- CHEM 1311 General Chemistry I\(^4\)
- CHEM 1312 General Chemistry II\(^4\)

**Language, Philosophy and Culture:** 3 semester credit hours

Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

**Creative Arts:** 3 semester credit hours

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

**American History:** 6 semester credit hours

Select any 6 semester credit hours from American History core courses (see advisor)

**Government / Political Science:** 6 semester credit hours

Select any 6 semester credit hours from Government / Political Science core courses (see advisor)
Social and Behavioral Sciences: 3 semester credit hours

**ECON 2301** Principles of Macroeconomics

Component Area Option: 6 semester credit hours

**MATH 2419** Calculus II

**ECON 2302** Principles of Microeconomics

II. Major Requirements: 96 semester credit hours

Business Major Preparatory Courses: 16 semester credit hours beyond Core Curriculum

**ACCT 2301** Introductory Financial Accounting

**ACCT 2302** Introductory Management Accounting

**HMGT 3100** Professional Development

**BLAW 2301** Business and Public Law

**ECON 2301** Principles of Macroeconomics

**ECON 2302** Principles of Microeconomics

or **MATH 2333** Matrices, Vectors, and Their Application

or **OPRE 3360** Managerial Methods in Decision Making Under Uncertainty

or **STAT 2332** Introductory Statistics for Life Sciences

or **STAT 3360** Probability and Statistics for Management and Economics

Business Core Courses: 27 semester credit hours

**BCOM 3310** Business Communication

**BCOM 4350** Advanced Business Communication

**FIN 3320** Business Finance

**ITSS 3300** Information Technology for Business

**OPRE 3310** Operations Management

**OBHR 3310** Organizational Behavior

**MKT 3300** Principles of Marketing

**PS 4305** Strategic Management

**IMS 3310** International Business

Biology Major Preparatory Courses: 20 semester credit hours beyond Core Curriculum

**CHEM 1111** General Chemistry Laboratory I

**CHEM 1112** General Chemistry Laboratory II
Biology Core Courses: 33 semester credit hours

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>BIOL 2111</td>
<td>Introduction to Modern Biology Workshop</td>
</tr>
<tr>
<td>BIOL 2112</td>
<td>Introduction to Modern Biology Workshop II</td>
</tr>
<tr>
<td>BIOL 2211</td>
<td>Introductory Biology Laboratory</td>
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<tr>
<td>BIOL 2311</td>
<td>Introduction to Modern Biology</td>
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<tr>
<td>BIOL 3101</td>
<td>Classical and Molecular Genetics Workshop</td>
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<tr>
<td>BIOL 3102</td>
<td>Eukaryotic Molecular and Cell Biology Workshop</td>
</tr>
<tr>
<td>BIOL 3161</td>
<td>Biochemistry Workshop I</td>
</tr>
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<td>BIOL 3162</td>
<td>Biochemistry Workshop II</td>
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<td>BIOL 3301</td>
<td>Classical and Molecular Genetics</td>
</tr>
<tr>
<td>BIOL 3302</td>
<td>Eukaryotic Molecular and Cell Biology</td>
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<td>BIOL 3361</td>
<td>Biochemistry I</td>
</tr>
<tr>
<td>BIOL 3362</td>
<td>Biochemistry II</td>
</tr>
<tr>
<td>or BIOL 3335</td>
<td>Microbial Physiology</td>
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<tr>
<td>BIOL 3380</td>
<td>Biochemistry Laboratory</td>
</tr>
<tr>
<td>BIOL 4461</td>
<td>Biophysical Chemistry</td>
</tr>
</tbody>
</table>

III. Elective Requirements: 15 semester credit hours

Healthcare Management Core Courses: 12 semester credit hours

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deleted: 9</td>
<td></td>
</tr>
</tbody>
</table>
HMGT 3301 Introduction to Healthcare Management

HMGT 3311 Healthcare Accounting

HMGT 4321 Introduction to Healthcare Information Systems

HMGT 3310 Healthcare Regulatory Environment

Biology: (3 semester credit hours) BIOL 4380 Cell and Molecular Biology Laboratory or approved upper-level biology course.

Biology (3 semester credit hours):

- BIOL 4380 Cell and Molecular Biology Laboratory
- BIOL 3V96 Undergraduate Research in Molecular and Cell Biology
- BIOL 4391 Senior Research in Molecular and Cell Biology: Advanced Writing
- BIOL 4399 Senior Honors Research in Molecular and Cell Biology: Thesis/Advanced Writing

Each student is expected to complete a minimum of 160 hours of business-related work to fulfill the JSOM professional practicum requirement.

All students must complete at least 51 semester credit hours of upper-division courses to graduate.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Degree is 154 semester credit hours if students are required to take BA 1100 or NATS 1101.

3. Curriculum requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major requirements at UT Dallas. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

5. Six semester credit hours of Calculus are counted under Mathematics Core and Component Area Option Core, and 2 semester credit hours of Calculus are counted as Biology Major Preparatory Courses. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

7. Students may substitute MATH 2418 or CS 2305.

8. Requires permission of the Biology Undergraduate Advisor to ensure training in recombinant DNA analysis.

Updated: September 4, 2014 - Visitor: 231
Naveen Jindal School of Management

Bachelor of Science in Information Technology and Systems

Degree Requirements (120 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours
- COMM 1311 Survey of Oral and Technology-based Communication
- RHET 1302 Rhetoric

Mathematics: 3 semester credit hours
- MATH 1325 Applied Calculus I

Life and Physical Sciences: 6 semester credit hours
- Select any 6 semester credit hours from Life and Physical Sciences core courses (see advisor and degree requirements)

Language, Philosophy and Culture: 3 semester credit hours
- Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours
- Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours
- Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours
- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
ECON 2301 Principles of Macroeconomics

Component Area Option: 6 semester credit hours
   MATH 1326 Applied Calculus II
   ECON 2302 Principles of Microeconomics

II. Major Requirements: 75 semester credit hours

   Major Preparatory Courses: 15 semester credit hours beyond the Core Curriculum
   ACCT 2301 Introductory Financial Accounting
   ACCT 2302 Introductory Management Accounting
   BLAW 2301 Business and Public Law
   ECON 2301 Principles of Macroeconomics
   ECON 2302 Principles of Microeconomics
   MATH 1325 Applied Calculus
   MATH 1326 Applied Calculus II
   OPRE 3333 Quantitative Business Analysis
   or MATH 2333 Matrices, Vectors, and Their Application
   STAT 3360 Probability and Statistics for Management and Economics
   or OPRE 3360 Managerial Methods in Decision Making Under Uncertainty

   Major Core Courses: 25 semester credit hours
   ITSS 3100 Professional Development
   BCOM 3310 Business Communication
   BCOM 4350 Advanced Business Communication
   FIN 3320 Business Finance
   ITSS 3300 Information Technology for Business
   OPRE 3310 Operations Management
   OBHR 3310 Organizational Behavior
   MKT 3300 Principles of Marketing
   IMS 3310 International Business

   Major Related Courses: 23 semester credit hours
   ITSS 3211 Introduction to Programming
   ITSS 3312 Object-Oriented Programming
   ITSS 4300 Database Fundamentals
   ITSS 4330 Systems Analysis and Design
   ITSS 4360 Network and Information Security
   ITSS 4361 Foundations of Business Intelligence
   ITSS 4370 Information Technology Management

Comment (MV1): This should be 75 SCH? Ok'd by Kaplan, 2-27-15 email.
Guided Electives: 12 semester credit hours (by selecting one track)

a. Business Intelligence and Analytics Track – choose 12 hours from the following courses:
   - ITSS 4353 Business Analytics
   - ITSS 4352 Introduction to Web Analytics
   - ITSS 4354 Managing Big Data
   - ITSS 4355 Data Visualization

b. Enterprise Systems Track
   - ITSS 4340 Enterprise Resource Planning
   - ITSS 4353 Business Analytics
   - ITSS 4343 Integrated SCM Information Systems
   - ACCT 4342 Analysis and Design of Accounting Systems

III. Elective Requirements: 3 semester credit hours

Free Electives: 3 semester credit hours

Both lower- and upper-division courses may count as electives but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

JSOM freshmen are required to take BA 1100 Business Basics.

Each student is expected to complete a minimum of 160 hours of business-related work to fulfill the JSOM professional practicum requirement.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

4. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

5. Students may elect to substitute MATH 2413 and MATH 2414 or MATH 2417 and MATH 2419.

6. Students may substitute MATH 2418 or CS 2305.
Naveen Jindal School of Management

Faculty List Placeholder

Bachelor of Science in Marketing

Degree Requirements (120 semester credit hours)¹

I. Core Curriculum Requirements: 42 semester credit hours²

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

MATH 1325 Applied Calculus I

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences core courses (see advisor and degree requirements)

Language, Philosophy and Culture: 3 semester credit hours

Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours

Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours

GOVT 2305 American National Government
GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

ECON 2301 Principles of Macroeconomics

Component Area Option: 6 semester credit hours
II. Major Requirements: 64 semester credit hours

Major Preparatory Courses: 15 semester credit hours beyond Core Curriculum

- ACCT 2301 Introductory Financial Accounting
- ACCT 2302 Introductory Management Accounting
- BLAW 2301 Business and Public Law
- ECON 2301 Principles of Macroeconomics
- ECON 2302 Principles of Microeconomics
- MATH 1325 Applied Calculus
- MATH 1326 Applied Calculus II
- OPRE 3333 Quantitative Business Analysis
  - or MATH 2333 Matrices, Vectors, and Their Application
- STAT 3360 Probability and Statistics for Management and Economics
  - or OPRE 3360 Managerial Methods in Decision Making Under Uncertainty

Major Core Courses: 28 semester credit hours

- MKT 3100 Professional Development
- BCOM 3310 Business Communication
- BCOM 4350 Advanced Business Communication
- FIN 3320 Business Finance
- ITSS 3300 Information Technology for Business
- OPRE 3310 Operations Management
- OBHR 3310 Organizational Behavior
- MKT 3300 Principles of Marketing
- BPS 4305 Strategic Management
- IMS 3310 International Business

Major Related Courses: 12 semester credit hours

- MKT 3340 Marketing Research
- MKT 4330 Digital and Internet Marketing
- MKT 3330 Introduction to Professional Selling
- MKT 4380 Capstone Course in Marketing
Guided Electives: 9 semester credit hours

Three semester credit hours to be selected from:

- MKT 3320, MKT 4331, MKT 4332, MKT 4340, MKT 4350 or MKT 4V93

Six semester credit hours to be selected from:

- MKT 4321, MKT 4330, MKT 4331, MKT 4332, MKT 4333, MKT 4334, MKT 4340, MKT 4350, MKT 4351, MKT 4356, MKT 4370, MKT 4V83, MKT 4V90, MKT 4V93, ATEC 4341, BA 4299, BA 4199, ECON 3310, ENTP 3301, (ENTP 4311 OR ENTP 4330), IMS 4310, MKT 4320, JYSS 4312

III. Elective Requirements: 14 semester credit hours

Free Electives: 14 semester credit hours

Both lower- and upper-division courses may count as electives but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

JSOM freshmen are required to take BA 1100 Business Basics.

Each student is expected to complete a minimum of 160 hours of business-related work to fulfill the JSOM professional practicum requirement.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

4. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

5. Students may elect to substitute MATH 2413 and MATH 2414 or MATH 2417 and MATH 2419.

6. Students may substitute MATH 2418 or CS 2305.
Bachelor of Science in Supply Chain Management

Degree Requirements (120 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours
- COMM 1311 Survey of Oral and Technology-based Communication
- RHET 1302 Rhetoric

Mathematics: 3 semester credit hours
- MATH 1325 Applied Calculus I

Life and Physical Sciences: 6 semester credit hours
- Select any 6 semester credit hours from Life and Physical Sciences core courses (see advisor and degree requirements)

Language, Philosophy and Culture: 3 semester credit hours
- Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours
- Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours
- Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours
- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
- ECON 2301 Principles of Macroeconomics
Component Area Option: 6 semester credit hours

- MATH 1326 Applied Calculus II
- ECON 2302 Principles of Microeconomics

II. Major Requirements: 67 semester credit hours

Major Preparatory Courses: 15 semester credit hours beyond Core Curriculum

- ACCT 2301 Introductory Financial Accounting
- ACCT 2302 Introductory Management Accounting
- BLAW 2301 Business and Public Law
- ECON 2301 Principles of Macroeconomics
- ECON 2302 Principles of Microeconomics
- MATH 1325 Applied Calculus I
- MATH 1326 Applied Calculus II
- OPRE 3333 Quantitative Business Analysis
- or MATH 2333 Matrices, Vectors, and Their Application
- STAT 3360 Probability and Statistics for Management and Economics
- or OPRE 3360 Managerial Methods in Decision Making Under Uncertainty

Major Core Courses: 28 semester credit hours

- OPRE 3100 Professional Development
- BCOM 3310 Business Communication
- BCOM 4350 Advanced Business Communication
- FIN 3320 Business Finance
- ITSS 3300 Information Technology for Business
- OPRE 3310 Operations Management
- OBHR 3310 Organizational Behavior
- MKT 3300 Principles of Marketing
- BPS 4305 Strategic Management
- IMS 3310 International Business

Major Related Courses: 15 semester credit hours

- OPRE 3320 Supply Chain Management
- OPRE 3330 Project Management
- OPRE 4310 Lean and Six Sigma Processes
- OPRE 4330 Logistics and Inventory Management
OPRE 4340 Purchasing and Sourcing Management

Guided Electives: 9 semester credit hours (choose 3 courses from the following list of the courses below)

- MKT 3330 Introduction to Professional Selling
- IMS 4310 Export Market Development
- OBHR 4352 Negotiation and Dispute Resolution
- OBHR 4310 Business Ethics
- ITSS 4340 Enterprise Resource Planning
- ITSS 4300 Database Fundamentals
- OPRE 4320 Integrated SCM Information Systems
- OPRE 4360 Capstone Projects in Supply Chain Management
- OPRE 4350 Global Outsourcing Services

III. Elective Requirements: 11 semester credit hours

Free Electives: 11 semester credit hours

Both lower- and upper-division courses may count as electives but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

JSOM freshmen are required to take BA 1100 Business Basics.

Each student is expected to complete a minimum of 160 hours of business-related work to fulfill the JSOM professional practicum requirement.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

4. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

5. Students may elect to substitute MATH 2413 and MATH 2414 or MATH 2417 and MATH 2419.

6. Students may substitute MATH 2418 or CS 2305.
Naveen Jindal School of Management

Minors

Students must take a minimum of 18 semester credit hours for the minor, 12 of which must be upper-division semester credit hours. Students who take a minor will be expected to meet the normal prerequisites in courses making up the minor, and should maintain a minimum GPA of 2.000 on a 4.00 scale (C average). Semester credit hours may not be used to satisfy both the major and minor requirements; however, free elective semester credit hours or major preparatory classes may be used to satisfy the minor. The minors in the Naveen Jindal School of Management are the following:

- Accounting
- Business Administration
- Business Intelligence and Analytics
- Energy Management
- Finance
- Information Technology and Systems
- Innovation and Entrepreneurship
- Insurance
- Marketing
- Organizational Behavior/Human Resources Management
- Sales

Minor in Accounting: 18 semester credit hours

ACCT 2301 Introductory Financial Accounting
ACCT 2302 Introductory Management Accounting
ACCT 3331 Intermediate Financial Accounting I
ACCT 3350 Fundamentals of Taxation
ACCT 4342 Analysis and Design of Accounting Systems

And one elective must be upper-division (ACCT 3XXX or 4XXX - an Accounting course, from the 3000 or 4000 level courses)
All other prerequisites should be met.

**Minor in Business Administration: 18 semester credit hours**

- **OBHR 3310** Organizational Behavior
- **MKT 3300** Principles of Marketing
- **BCOM 3310** Business Communication
- **ITSS 3300** Information Technology for Business

And an additional 6 semester credit hours of upper-division JSOM coursework as approved by the program director (students may not double count courses for both their major and their minor; thus, additional electives may need to be added).

All other prerequisites should be met.

**Minor in Business Intelligence and Analytics: 18 semester credit hours**

- **STAT 3360** Probability and Statistics for Management and Economics or **OPRE 3360** Managerial Methods in Decision Making Under Uncertainty
- **ITSS 4300** Database Fundamentals or **CS 4347** Database Systems
- **ITSS 4351** Foundations of Business Intelligence
- **ITSS 4352** Introduction to Web Analytics
- **ITSS 4353** Business Analytics

Also choose one course from the following:

- **ITSS 4354** Managing Big Data
- **ITSS 4355** Data Visualization

All other prerequisites should be met.

**Minor in Energy Management: 18 semester credit hours**

**MECO 3300 or ENGY 3300** Introduction to Energy Technology
**FIN 4313 or ENGY 4313** Energy Finance
**MECO 3330 or ENGY 3330** Energy Economics
**MECO 4390 or ENGY 4390** Energy Land Management
**MKT 3340** Marketing Research

Also choose one course from the following:

- **OPRE 4330** Logistics and Inventory Management
- **MECO 4342** Financial and Business Negotiation Analysis

All other prerequisites should be met.
Minor in Information Technology and Systems: 18 semester credit hours

- ITSS 3312 Object-Oriented Programming
- ITSS 4300 Database Fundamentals
- ITSS 4330 Systems Analysis and Design
- ITSS 4351 Foundations of Business Intelligence
- ITSS 4360 Network and Information Security
- ITSS 4370 Information Technology Management

All other prerequisites should be met.

Minor in Finance: 18 semester credit hours

ACCT 2301 Introductory Financial Accounting
FIN 3320 Business Finance
FIN 3390 Introduction to Financial Modeling

And an additional 9 semester credit hours to be selected from upper-division finance courses listed as options under the finance degree.

All other prerequisites should be met.

Minor in Innovation and Entrepreneurship: 18 semester credit hours

MKT 3300 Principles of Marketing
ENTP 3301 Innovation and Entrepreneurship

And 9 semester credit hours to be selected from:
ENTP 3360 Entrepreneurial Finance
or FIN 3360 Entrepreneurial Finance
ENTP 4311 Entrepreneurial Strategy and Business Models
ENTP 4320 Small Business Management
or ENTP 4350 Corporate Entrepreneurship

With an additional 3 semester credit hours to be selected from the remaining ENTP courses not previously taken:
ENTP 3320 Start-up Launch I
or ENTP 3321 Start-up Launch II
ENTP 4330 Entrepreneurial Marketing
ENTP 4340 Social Entrepreneurship
ENTP 4360 Innovation and Creativity
ENTP 4V00 Special Topics in Entrepreneurship
or ENTP 4V90 Innovation and Entrepreneurship Internship

All other prerequisites should be met.
Minor in Insurance: 18 semester credit hours

Choose six courses from the following:

- RMIS 3370 or FIN 3370 Principles of Risk Management and Insurance
- RMIS 4331 Business Liability Risk Management and Insurance
- RMIS 4332 Commercial Property Risk Management and Insurance
- RMIS 4333 Business Risk Management
- RMIS 4334 Insurance Law and Contracts
- FIN 3330 Personal Financial Planning
- FIN 3305 or REAL 3305 Real Estate Principles
- MKT 3340 Marketing Research

All other prerequisites should be met.

Minor in Marketing: 18 semester credit hours

- MKT 3300 Principles of Marketing
- MKT 3340 Marketing Research
- MKT 3320 Product and Brand Management
- MKT 3330 Introduction to Professional Selling

with an additional 6 semester credit hours to be selected from:

- MKT 4380 Capstone Course in Marketing
- MKT 4331 Digital Prospecting
- MKT 4332 Advanced Personal Selling
- MKT 4V90 Marketing Internship
- MKT 4350 Advertising
- MKT 4340 Consumer Behavior
  
  or MKT 4V83 Individual Study in Marketing

All other prerequisites should be met.

Minor in Organizational Behavior/Human Resource Management: 18 semester credit hours

- OBHR 3310 Organizational Behavior
- OBHR 3311 Principles of Management
- OBHR 3330 Introduction to Human Resource Management
- OBHR 4350 Introduction to Leading and Managing
OBHR 4360 Capstone in Organizational Behavior

with an addition 3 semester credit hours of upper-division OBHR coursework as approved by the program director (students may not double count courses for both their major and their minor; thus, additional electives may need to be added).

All other prerequisites should be met.

Minor in Sales: 18 semester credit hours

Updated: September 4, 2014 - Visitor: 507
School of Natural Sciences and Mathematics (NSMT)
2015-16 Undergraduate Catalog

Degree Programs
School of Natural Sciences and Mathematics

The School of Natural Sciences and Mathematics offers both graduate and undergraduate programs in Biology and Molecular Biology, Chemistry and Biochemistry, Geosciences, Mathematics, and Physics, and a graduate program in Science Education. Certain options may exceed minimum requirements for degree. Undergraduate and post-baccalaureate programs in teacher certification are administratively housed in the School of Natural Sciences and Mathematics but serve other schools as well.

The undergraduate programs in Biology and Molecular Biology provide a basic foundation in molecular and cell biology to prepare students for graduate studies in biological sciences (BS), for professional studies in a wide variety of health-related areas, for secondary school teaching, and for employment as research assistants in pharmaceutical, biotechnology, government, and environmental science laboratories (BS, MA).

The undergraduate programs in Chemistry and Biochemistry provide the fundamental knowledge required for professional participation in chemically oriented industries, for graduate study in chemistry, and for medical or dental studies (BS), or for secondary science teaching or ancillary positions (sales, legal, etc.) in the chemical industries (MA).

The undergraduate program in Geosciences provides a general scientific background suitable for some careers in business or law, for secondary school teaching, or for employment as a professional geologist, or for graduate studies in Geosciences (BS).

The undergraduate programs in Mathematics (BS) encompass Mathematics, Statistics, and Applied Mathematics, and are designed so that students can have the opportunity to prepare for employment immediately upon graduation in a broad range of positions in business, industry, government and education - or for continuing with graduate studies in any of these areas.

The undergraduate Physics program offers a basic foundation in classical and modern physics for students interested in professional careers in physics, usually requiring graduate degrees, as well as in related fields, e.g., electrical engineering, medical physics, radiology, geophysics, computer science (BS), or a strong base in physics for students seeking to pursue careers in medicine, patent law, government or industrial laboratories, or secondary school teaching (MA).

The School of Natural Sciences and Mathematics also provides opportunities for students to complete Texas Teacher Certification requirements in Life Science, Chemistry, Mathematics, Physical Science, Composite Science, and Mathematics. Students who wish to be certified should consult the UTeach Dallas for specific requirements as soon as possible after formal admission to the university. Further details may be found in the Teacher Education Certification Programs section of the catalog.

UT-PACT BA/MD Program

The Partnership in Advancing Clinical Transition (UT-PACT) is a collaborative program between UT Dallas and UT Southwestern Medical School. Students enrolled in UT-PACT will have joint admission to a in Biology and MD training programs. The University of Texas System initiative is an effort to expedite the training for healthcare professions and to prepare students for careers in medicine through the coordination of undergraduate and medical school curricula.
Information about the UT-PACT partnership is available at [www.utdallas.edu/pre-health/ut-pact](http://www.utdallas.edu/pre-health/ut-pact).

**Major Honors**

The Departments of the School of Natural Science and Mathematics offer the opportunity for outstanding students to graduate with Honors or Honors with Distinction in their major. The program provides for these students to work individually with faculty for an in-depth experience in research.

Eligibility requirements include:

- at least 30 graded semester credit hours of coursework at UT Dallas with a cumulative grade point average of 3.750,
- at least 12 semester credit hours of upper-division courses in the student's major with a grade point average of 3.750 over all the upper-division courses in the major, and
- completion of an honors thesis evaluated by two faculty members with a grade of at least B+.

The thesis should be submitted at least three weeks prior to the last day of classes of the term. It is then critiqued by the faculty mentor, returned to the student for revision and resubmission by the last day of classes of the term.

Honors with Distinction will be awarded to students whose theses are judged by a faculty committee of at least three members to be of exemplary quality, and if carried to fruition, would warrant publication in a journal in the field of work.

**Minors**

To minor in the School of Natural Sciences and Mathematics, students must take a minimum of 18 semester credit hours for the minor, 12 of which must be upper-division semester credit hours. Students who take a minor will be expected to meet the normal prerequisites in courses making up the minor, and should maintain a minimum GPA of 2.00 on a 4.00 scale (C average). Semester credit hours may not be used to satisfy both the major and minor requirements; however, free elective semester credit hours or major preparatory classes may be used to satisfy the minor. Students must complete all prerequisite sequences for required minor courses for all minors in the School of Natural Sciences and Mathematics. Students may choose to minor in any of the following fields of study:

- Actuarial Science
- Biology
- Biomolecular Structure
- Chemistry
- Geosciences
- Mathematics
- Microbiology
- Molecular and Cell Biology
- Neurobiology
- Physics
• Statistics
• Neurobiology
• Physics
• Statistics
School of Natural Sciences and Mathematics

Actuarial Science (BS)

The Bachelor of Science in Actuarial Science (BS) Program at The University of Texas at Dallas is administered through the Department of Mathematical Sciences.

Students receive a rigorous mathematical background including all the major courses taken by students majoring in mathematics or statistics. Further, ten courses devoted to finance, economics, applied statistics, insurance, and actuarial science are required. Upon completion of this program, a student will have the knowledge and business background necessary to pursue a career as an actuary, as well as to undertake graduate study in actuarial science, statistics, mathematics, economics, or finance.

Faculty

Professors: Larry P. Ammann, Sam Efromovich, Wiesław Krawcewicz, Susan Minkoff, Viswanath Ramakrishna, Zalman Balanov

Associate Professor: Mieczysław Dabkowski

Clinical Professor: Natalia Humphreys

Senior Lecturers: Yuly Koshevnik, Malgorzata Dabkowska

Bachelor of Science in Actuarial Science

Degree Requirements (120 semester credit hours)\(^1\)

I. Core Curriculum Requirements: 42 semester credit hours\(^2\)

Communication: 6 semester credit hours

\[
\text{COMM 1311} \quad \text{Survey of Oral and Technology-based Communication}
\]

\[
\text{HET 1302} \quad \text{heuristic}
\]

Mathematics: 3 semester credit hours

\[
\text{MATH 2417} \quad \text{Calculus I}\(^3,4\)
\]

Life and Physical Sciences: 6 semester credit hours\(^5\)

\[
\text{PHYS 2325} \quad \text{Mechanics}
\]

or \[
\text{PHYS 2421} \quad \text{Honors Physics I - Mechanics and Heat}
\]
II. Major Requirements: 78 semester credit hours

Major Preparatory Courses: 33 semester credit hours beyond Core Curriculum

ACCT 2301 Introductory Financial Accounting
ACCT 2302 Introductory Management Accounting
CS 3310 Business Communication
CS 1336 Programming Fundamentals
CS 1136 Computer Science Laboratory
CS 1137 Computer Science I
EC 2302 Principles of Microeconomics
MATH 2417 Calculus I^3, 4, 6

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Made up [1]:
CS 1337
Computer Science I

Deleted: 29

Comment [MJ1]: This is the non-core used from now on; BCOM 3311 is used for transitional period through summer 2016.

Component Area Option: 6 semester credit hours

MATH 2417 Calculus I^3, 4
MATH 2419 Calculus II^3, 4
PHYS 2125 Physics Laboratory II^5

Deleted: 77

Made up [1]:
CS 1337
Computer Science I

Deleted: 29

Comment [MJ1]: This is the non-core used from now on; BCOM 3311 is used for transitional period through summer 2016.

Moved (insertion) [1]

Moved up [1]:
CS 1337
Computer Science I
MATH 2419 Calculus II
MATH 2418 Linear Algebra
MATH 2420 Differential Equations with Applications
MATH 2451 Multivariable Calculus with Applications

PHYS 2325 Mechanics
  or PHYS 2421 Honors Physics I - Mechanics and Heat
  or CHEM 1311 General Chemistry I

PHYS 2326 Electromagnetism and Waves
  or PHYS 2422 Honors Physics II - Electromagnetism and Waves
  or CHEM 1312 General Chemistry II

PHYS 2125 Mechanics Laboratory

PHYS 2126 Electromagnetism and Waves Laboratory

CHEM 1111 General Chemistry I Laboratory
  or CHEM 1112 General Chemistry II Laboratory

Major Core Courses: 45 semester credit hours

ACTS 4301 Principles of Actuarial Models: Life Contingencies I
ACTS 4302 Principles of Actuarial Models: Financial Economics
ACTS 4304 Construction and Evaluation of Actuarial Models
ACTS 4308 Actuarial Financial Mathematics
FIN 3320 Business Finance
FIN 3390 Introduction to Financial Modeling

MATH 3310 Theoretical Concepts of Calculus
MATH 3311 Abstract Algebra I
MATH 3379 Complex Variables
MATH 4334 Numerical Analysis

ITSS 3300 Information Technology for Business

STAT 3355 Data Analysis for Statisticians and Actuaries
STAT 4351 Probability
STAT 4352 Mathematical Statistics
STAT 4382 Stochastic Processes

III. Elective Requirements: 1 semester credit hour

Freshman students are required to take IU IV 1010 and ATS 1101.
Preparation for Actuarial Exams

Exam 1/P: STAT 4351 or ACTS 4306
Exam 2/FM: ACTS 4308, FI 3320
Exam 3/M: C: ACTS 4301
Exam 3F/MFE: ACTS 4302
Exam 4/C: ACTS 4304

Validation by Educational Experience (VEE) Credits

Applied Statistical Methods: STAT 3355 and STAT 4382
Corporate Finance: FI 3320
Economics: EC 2301 and EC 2302

Fast Track Baccalaureate/Master's Degrees

In response to the need for post-baccalaureate education, a Fast Track program is available to well-qualified UT Dallas undergraduate students. At the end of five years of successful study, it is possible to earn both a bachelor's degree and a master's degree in Natural Science and Mathematics. Qualified seniors may take up to 15 graduate semester credit hours that may be used to complete the baccalaureate degree and also to satisfy the requirements for the master's degree. Interested students should see the Associate Dean of Undergraduate Education (ADU) for specific requirements.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum requirements can be fulfilled by other approved courses from accredited institutions of higher education. The courses are recommended as the most efficient way to satisfy both Core Curriculum and Major requirements at UT Dallas.

3. A required Major preparatory course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

4. Three semester credit hours of Calculus are counted to fulfill the Mathematics Core requirement with the remaining five semester credit hours to be counted under Component Area Option Core requirement.

5. Six semester credit hours of Physics are counted under Science core, and one semester credit hour of Physics (PHYS 2101) is counted under Component Area Option core.

6. Students may choose one of the following calculus sequences: (a) MATH 2413, MATH 2414, and MATH 2415; or (b) MATH 2417 and MATH 2419.

7. ATS 1101 may be substituted for an appropriate elective for transfer students.
School of Natural Sciences and Mathematics

Biochemistry (BS)

The Biochemistry program at UT Dallas, administered through the Department of Chemistry and Biochemistry, draws on faculty from the Departments of Chemistry and Biochemistry, Biological Sciences, and researchers from UT Southwestern Medical School to provide courses and research opportunities to its majors. The Biochemistry major bridges the gap between modern Chemistry and Biology. The curriculum, designed to prepare students for either graduate work in the Biological Sciences, the Chemical Sciences, or for entry-level positions in the biotechnology industry, builds on a base of biology, chemistry, physics, and mathematics to provide the student the opportunity to develop essential theoretical and practical skills.

Chemistry and Biochemistry Faculty

Robert A. Welch Chair in Chemistry; Professor of Chemistry: Ray H. Baughman

Cecil and Ida Green Distinguished Chair in Systems Biology; Professor of Chemistry: A. Dean Sherry

Distinguished Chair in Natural Sciences and Mathematics; Dean of the School of Natural Sciences and Mathematics: Bruce M. Novak

Professors: Kenneth Balkus Jr., Julia Chan, Rockford Draper, John P. Ferraris, Bruce E. Gnade, Inga H. Musselman

Professor Emeritus: Richard A. Caldwell

Research Professor: Duck Joo (D. J.) Yang

Associate Professors: Jung-Mo Ahn, Michael C. Biewer, Gregg Dieckmann, Warren Goux, Steven H. Nielsen, Paul Pantano, John W. Sibert IV, Mihaela C. Stefan, Tie Cheng

Assistant Professors: Jeremiah Gassensmith, Hyong Lee, Ronald A. Smaldone

Senior Lecturers: Sergio Cortes, Sandhya Gavva, Jason McAfee, Yanping Qin, Amandeep Sra, Claudia Taenzler

Affiliated Faculty: Lee A. Bulla, Yves Chabal, D. Gelb, Amy V. Walker, Anvar A. Zakhidov

Biological Sciences Faculty

Professors: Lee A. Bulla, Rockford Draper, Juan E. Gonzalez, Stephen D. Steven, Lawrence Keiter, Stephen Spiro, Jiehang, Michael Wei

Professor Emeritus: Donald M. Gray

Associate Professors: Gail A. M. Green, John G. Hurr, Jeff DeJong, Ekkki Delk, Ernest M. Hannig, Tae Hoon Lim, Dennis Miller

Assistant Professors: Chenyu Yuan

UT Southwestern Medical School

UT Dallas Biochemistry majors may perform their research in the laboratories of faculty members from the departments of Biochemistry, Internal Medicine, Pharmacology and Physiology at UT Southwestern, as available.

Bachelor of Science in Biochemistry

Degree Requirements (120 semester credit hours)\(^1\)

I. Core Curriculum Requirements: 42 semester credit hours\(^2\)

Communication: 6 semester credit hours

- COMM 1311 Survey of Oral, and Technology-based Communication
- RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

- MATH 2417 Calculus\(^3,4\)
  or MATH 2413 Differential Calculus\(^3,4\)

Life and Physical Sciences: 6 semester credit hours\(^3\)

- CHEM 1311 General Chemistry\(^3\)
  or CHEM 1315 Honors Freshman Chemistry\(^3\)
- CHEM 1312 General Chemistry II\(^3\)
  or CHEM 1316 Honors Freshman Chemistry II\(^3\)

Language, Philosophy and Culture: 3 semester credit hours

Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours

Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours
GOVT 2305 American National Government
GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
Select any 3 semester credit hours from Social and Behavioral Sciences core courses (see advisor)

Component Area Option: 6 semester credit hours
MATH 2417 Calculus I\(^3,4\)
or MATH 2413 Differential Calculus\(^3,4\)
MATH 2419 Calculus II\(^3,4\)
or MATH 2414 Integral Calculus\(^3,4\)
PHYS 2125 Physics Laboratory\(^3,5\)

II. Major Requirements: 66 semester credit hours

Major Preparatory Courses: 29 semester credit hours beyond Core Curriculum
CSCI 2111 Introduction to Modern Biology Workshop I
CSCI 2311 Introduction to Modern Biology I
CHEM 1111 General Chemistry Laboratory I
or CHEM 1115 Honors Freshman Chemistry Laboratory I
CHEM 1112 General Chemistry Laboratory II
or CHEM 1116 Honors Freshman Chemistry Laboratory II
CHEM 1311 General Chemistry I\(^3\)
or CHEM 1315 Honors Freshman Chemistry I\(^3\)
CHEM 1312 General Chemistry II\(^3\)
or CHEM 1316 Honors Freshman Chemistry II\(^3\)
CHEM 2123 Introductory Organic Chemistry Laboratory I\(^6\)
CHEM 2125 Introductory Organic Chemistry Laboratory II\(^6\)
CHEM 2323 Introductory Organic Chemistry I\(^6\)
CHEM 2325 Introductory Organic Chemistry II\(^6\)
CHEM 2401 Introductory Quantitative Methods in Chemistry

MATH Sequence - Students may choose one of the following sequences:
I. MATH 2413 Differential Calculus\(^3,4\)
and MATH 2414 Integral Calculus\(^3,4\)
and MATH 2415 Calculus of Several Variables
II. MATH 2417 Calculus I\textsuperscript{3, 4}
and MATH 2419 Calculus II\textsuperscript{3, 4}
and MATH 2451 Multivariable Calculus with Applications

PHYS 2125 Physics Laboratory I\textsuperscript{3, 5}
PHYS 2126 Physics Laboratory II
PHYS 2325 Mechanics\textsuperscript{7}

or PHYS 2421 Honors Physics I - Mechanics and Heat\textsuperscript{7}
PHYS 2326 Electromagnetism and Waves\textsuperscript{7}

or PHYS 2422 Honors Physics II - Electromagnetism and Waves\textsuperscript{7}

Major Core Courses: 37 semester credit hours

- BIOL 3101 Classical and Molecular Genetics Workshop
- BIOL 3102 Eukaryotic Molecular and Cell Biology Workshop
- BIOL 3161 Biochemistry Workshop I
- BIOL 3162 Biochemistry Workshop II
- BIOL 3301 Classical and Molecular Genetics
- BIOL 3302 Eukaryotic Molecular and Cell Biology
- BIOL 3361 or CHEM 3361 Biochemistry I
- BIOL 3362 or CHEM 3362 Biochemistry II
- CHEM 3321 Physical Chemistry I
- CHEM 3322 Physical Chemistry II
- CHEM 3472 Instrumental Analysis

Any two upper-division Chemistry or Biology electives (8 semester credit hours) not taken to fulfill above.

III. Elective Requirements: 12 semester credit hours

Free Electives: 12 semester credit hours

The plan must include sufficient upper-division credit to total 51 upper-division semester credit hours.

STAT 2332 *Introductory Statistics for Life Sciences* is strongly recommended.

Fast Track Bachelor/Master's Degrees

Undergraduate students at UT Dallas with strong academic records who intend to pursue the MS in Chemistry at UT Dallas may apply for a Fast Track plan of study which involves taking selected graduate
courses as an upper-level student. After Fast Track admission to the graduate program, 15 semester credit hours of graduate courses with an earned grade of B or better can be used toward completion of the baccalaureate degree and to satisfy requirements for the master's degree. Interested students should contact the undergraduate advisor well in advance of the junior year to prepare a sequence permitting maximal advantage to be taken of the catalog's regulations (see catalog.utdallas.edu/2015/undergraduate/policies/graduate-courses) regarding Undergraduate Registration for Graduate Courses.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major requirements at UT Dallas.

3. A required Major course that also fulfills Core Curriculum requirement. Semester credit hours are counted in the Core Curriculum.

4. Three semester credit hours of Calculus are counted to fulfill the Mathematics Core requirement with the remaining five semester credit hours to be counted under Component Area Option Core.

5. Six semester credit hours of Physics are counted under Science core, and one semester of Physics (PHYS 2125) are counted under Component Area Option core.

6. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

7. Students will take one of the two Physics sequences: PHYS 2325 and PHYS 2326 or PHYS 2421 and PHYS 2422 with accompanying labs.
School of Natural Sciences and Mathematics

The Biology Program at UT Dallas emphasizes the unifying molecular and cellular nature of organisms. At the center of the Biology undergraduate curriculum are the biochemical, genetic, and cell biology concepts and tools used to study the genes of prokaryotes and eukaryotes, to study the proteins and ribonucleic acids (RNA) encoded by these genes, and to study how the expression of these genes is regulated during the development and lifetimes of organisms. Molecular Biology represents a fusion of the four disciplines of biochemistry, biophysics, genetics, and cell biology. Modern biology requires a background in other disciplines such as chemistry, mathematics, physics, and computer sciences. Principles from these disciplines have to be merged to understand and apply new biotechnology and genetic engineering techniques. It is desirable for entering students to have a broad interest and background in the sciences.

Biology (BA, BS)

Both BS and BA degrees are offered in Biology at UT Dallas. The BS degrees are intended as preparation for scientific careers in biology or careers in the health professions. The BA degree is intended as liberal arts biology major with less emphasis on calculus and more free semester credit hours for coursework in other disciplines. Biology offers a streamlined double major with Business Administration or Criminology. Fast Track BS / MS Biology and Molecular Biology degree programs are available.

The UTeach option may be added to either the BA or BS degree in Biology. UTeach Dallas Option degree plans are streamlined to allow students to complete both a rigorous Bachelor of Science or Bachelor of Arts degree and all coursework for middle or high school teacher certification in four years. Teaching Option degrees require deep content knowledge combined with courses grounded in the latest research on math and science education. While most graduates go on to classroom teaching, UTeach alums are also prepared to enter graduate school and to work in discipline related industry.

Minors are offered in Biology, Biomolecular Structure, Microbiology, Molecular and Cell Biology, and Neurobiology. See catalog.utdallas.edu/2014/undergraduate/programs/nsm/minors.

Faculty

Professors: Lee A. Bulla, Rockford K. Draper, Juan E. González, Lawrence J. Reitzer, Stephen Spiro, Li Zhang, Michael Qiwei Zhang

Professors Emeritus: Hans Bremer, Donald M. Gray, Claud S. Rupert

Associate Professors: Gail A. M. Breen, John G. Burr, Jeff L. DeJong, Ernest M. Hannig, Tae Hoon Kim, Dennis L. Miller

Assistant Professors: Nikki Delk, Heng Du, Jung-whan (Jay) Kim, Kelli Palmer, Anh T. Tran, Duane D. Winkler, Zhenyu Xuan, Hyuntae Yoo

Research Assistant Professor: Lan Guo
Senior Lecturers: Irina Borovkov, Mehmet Candas, Vincent P. Cirillo, Monique Duncan, Brenna Hill, Wen-Ju Lin, Li Liu, Robert C. Marsh, David Murchison, Jing Pan, Elizabeth Pickett, Ruben D. Ramirez, Scott A. Rippel, Elizabeth L. Rugg, Ilya Sapozhnikov, Uma Srikanth, Michelle Wilson, Wen-Ho Yu

Lecturers: Uyen Henson, John Kolar

Bachelor of Arts or Bachelor of Science in Biology

Degree Requirements (120 semester credit hours)\(^1\)

I. Core Curriculum Requirements: 42 semester credit hours\(^2\)

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication

RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

Choose One course from the following:

MATH 2413 Differential Calculus - BA or BS\(^3, 4, 5\)

or MATH 2417 Calculus I\(^3, 4, 5\)

MATH 1325 Applied Calculus - BA only\(^3\)

Life and Physical Sciences: 6 semester credit hours

CHEM 1311 General Chemistry I\(^3\)

CHEM 1312 General Chemistry II\(^3\)

Language, Philosophy and Culture: 3 semester credit hours

Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours

Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours

GOVT 2305 American National Government

GOVT 2306 State and Local Government
Social and Behavioral Sciences: 3 semester credit hours

Select any 3 semester credit hours from Social and Behavioral Sciences core courses (see advisor)

Component Area Option: 6 semester credit hours

- Choose two courses from the following:
  - BIOL 2311 Introduction to Modern Biology I
  - MATH 2414 Integral Calculus - BS or BA
  - or STAT 2332 Introductory Statistics for Life Sciences - BA only

II. Major Requirements: 53 - 61 semester credit hours beyond Core Curriculum (53-55 for BA; 61 for BS)

Major Preparatory Courses: 18-21 semester credit hours beyond Core Curriculum

- CHEM 1311 General Chemistry I
- CHEM 1111 General Chemistry Laboratory I
- CHEM 1312 General Chemistry II
- CHEM 1112 General Chemistry Laboratory II
- CHEM 2323 Introductory Organic Chemistry I
- CHEM 2123 Introductory Organic Chemistry Laboratory I
- CHEM 2325 Introductory Organic Chemistry II
- CHEM 2125 Introductory Organic Chemistry Laboratory II
- MATH 2413 Differential Calculus and MATH 2414 Integral Calculus (BA or BS)
  - or MATH 2417 Calculus I and MATH 2419 Calculus II (BA or BS)
  - or MATH 1325 Applied Calculus I and STAT 2332 Introductory Statistics for Life Sciences
- PHYS 2325 Mechanics and PHYS 2125 Physics Laboratory I
  - or PHYS 1301 College Physics I and PHYS 2125 Physics Laboratory I
- PHYS 2326 Electromagnetism and Waves and PHYS 2126 Physics Laboratory II
  - or PHYS 1302 College Physics II and PHYS 2126 Physics Laboratory II
- NATS 1101 Natural Sciences and Mathematics Freshman Seminar
- UNIV 1010 Freshman Seminar

Major Core Courses: 26-29 semester credit hours beyond Core Curriculum

- BIOL 2281 Introductory Biology Laboratory
- BIOL 2111 Introduction to Modern Biology Workshop I
- BIOL 2112 Introduction to Modern Biology Workshop II
- **BIOL 2311** Introduction to Modern Biology I
- **BIOL 2312** Introduction to Modern Biology II
- **BIOL 3101** Classical and Molecular Genetics Workshop
- **BIOL 3102** Eukaryotic Molecular and Cell Biology Workshop
- **BIOL 3161** Biochemistry Workshop I
- **BIOL 3162** Biochemistry Workshop II
- **BIOL 3301** Classical and Molecular Genetics
- **BIOL 3302** Eukaryotic Molecular and Cell Biology
- **BIOL 3361** Biochemistry I
- **BIOL 3362** Biochemistry II
  or **BIOL 3335** Microbial Physiology
- **BIOL 3380** Biochemistry Laboratory
- **BIOL 4380** Cell and Molecular Biology Laboratory (BS only)

**Major Related Courses: 9-12 semester credit hours**

- 9 semester credit hours upper-division BIOL electives (BA only)
- 12 semester credit hours upper-division-BIOL electives (BS only)

**III. Elective Requirements: 17-24 semester credit hours (23-24 for BA; 16-17 for BS)**

**Free Electives: 17-24 semester credit hours (23-24 for BA; 16-17 for BS)**

The plan must include sufficient upper-division courses to total 51 upper-division semester credit hours.

**UTeach Option**

The UTeach option may be added to either the BA or BS degree in Biology. UTeach Dallas Option degree plans are streamlined to allow students to complete both a rigorous Bachelor of Science or Bachelor of Arts degree and all coursework for middle or high school teacher certification in four years. Teaching Option degrees require deep content knowledge combined with courses grounded in the latest research on math and science education. While most graduates go on to classroom teaching, UTeach alums are also prepared to enter graduate school and to work in discipline related industry.

**Bachelor of Arts in Biology with UTeach Option**

**Degree Requirements (121-123 semester credit hours)**
I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

One of the following:
MATH 2413 Differential Calculus—BA or BS
MATH 1325 Applied Calculus—BA only

Life and Physical Sciences: 6 semester credit hours

CHEM 1311 General Chemistry—BA
CHEM 1312 General Chemistry—BA

Language, Philosophy and Culture: 3 semester credit hours

Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours

Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours

GOVT 2305 American National Government
GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

Select any 3 semester credit hours from Social and Behavioral Sciences core courses (see advisor)

Component Area Option: 6 semester credit hours

Two of the following:
BIOL 2311 Introduction to Modern Biology—BA
MATH 2413 Differential Calculus and MATH 2414 Integral Calculus—BS or BA
or MATH 1325 Applied Calculus—BA

II. Major Requirements: 5354-56 semester credit hours
Major Preparatory Courses: 15-18 19-21 semester credit hours beyond Core Curriculum

CHEM 1311 General Chemistry I
CHEM 1111 General Chemistry Laboratory I
CHEM 1312 General Chemistry II
CHEM 1112 General Chemistry Laboratory II
CHEM 2323 Introductory Organic Chemistry I
CHEM 2123 Introductory Organic Chemistry Laboratory I
CHEM 2325 Introductory Organic Chemistry II
CHEM 2125 Introductory Organic Chemistry Laboratory II
CHEM 2413 Differential Calculus and MATH 2414 Integral Calculus (BA or BS)
or MATH 1325 Applied Calculus I and STAT 2332 Introductory Statistics for Life Sciences (BA only)
PHYS 2325 Mechanics and PHYS 2125 Physics Laboratory I
or PHYS 1301 College Physics I and PHYS 2125 Physics Laboratory I
PHYS 2326 Electromagnetism and Waves and PHYS 2126 Physics Laboratory II
or PHYS 1302 College Physics II and PHYS 2126 Physics Laboratory II
NATS 1101 Natural Sciences and Mathematics Freshman Seminar
UNIV 1010 Freshman Seminar

Major Core Courses: 29-26 semester credit hours beyond Core Curriculum

BIOL 2281 Introductory Biology Laboratory I
BIOL 2111 Introduction to Modern Biology Workshop I
BIOL 2112 Introduction to Modern Biology Workshop II
BIOL 2311 Introduction to Modern Biology I
BIOL 2312 Introduction to Modern Biology II
BIOL 3101 Classical and Molecular Genetics Workshop
BIOL 3102 Eukaryotic Molecular and Cell Biology Workshop
BIOL 3161 Biochemistry Workshop I
BIOL 3162 Biochemistry Workshop II
BIOL 3301 Classical and Molecular Genetics
BIOL 3302 Eukaryotic Molecular and Cell Biology
BIOL 3361 Biochemistry I
BIOL 3362 Biochemistry II
BIOL 3390 Microbial Physiology
Laboratory

Major Related Courses: 9 semester credit hours

- 9 semester credit hours upper-division BIOL electives
- NATS 4390 satisfies 3 semester credit hours of this requirement.

III. Elective Requirements: 25 semester credit hours

UTeach Requirements: 21 semester credit hours beyond Major Related Courses

- Courses NATS 1141 UTeach STEP 1
- NATS 1142 UTeach STEP 2
- NATS 3341 Knowing and Learning in Mathematics and Science, NATS 3343 Classroom Interactions
- NATS 3327 Perspectives on Science and Mathematics for Educators, HIST 3328 History and Philosophy of Science and Medicine.

- NATS 4390 Research Methods
- NATS 4341 Project-Based Instruction
- NATS 4694 UTeach Apprentice Teaching, 8-12 Science and Mathematics
  or NATS 4696 UTeach Apprentice Teaching, 4-8 Science and Mathematics

- NATS 4141 UTeach Apprentice Teaching Seminar

Upper-Division Free Electives: 4 semester credit hours

The plan must include sufficient upper-division courses to total 51 upper-division semester credit hours.

Fast Track Baccalaureate/Master's Degrees

UT Dallas undergraduate students with strong academic records, including at least 15 semester credit hours of upper-division Biology core courses, who intend to pursue graduate work in Biology at UT Dallas, may apply for the Fast Track which involves taking selected graduate courses as an upper-division level student. After Fast Track admission to the graduate program, 15 semester credit hours of graduate courses with an earned grade of B or better can be used toward completion of the BS and to satisfy requirements for those courses at the graduate level. Graduate courses must be approved by the graduate advisor. This program provides an opportunity to obtain the BS degree in Biology after 120 semester credit hours of work and an MS degree in Molecular and Cell Biology after an additional 21 semester credit hours of graduate course and research work. Interested students should contact the Biology undergraduate advisor well in advance of the senior year to prepare a degree plan taking maximal advantage of this Fast Track program.

Degree Planning
Upper-division biology courses taken at other institutions may be included as part of the degree plan subject to the provisions of the section on Transfer Admissions.

Major-related courses may not include more than 9 semester credit hours (BS) or 6 semester credit hours (BA) of upper-division transfer credit and not more than 3 semester credit hours (Biology major) or 6 semester credit hours (Molecular Biology major) of individual instruction (e.g., BIOL 3V90, BIOL 3V91, BIOL 3V92, BIOL 3V96, BIOL 4302, BIOL 4390, BIOL 4391, BIOL 4394, BIOL 4399, BIOL 4V98, or BIOL 4V99).

Students planning a career in a particular allied health profession should consult the school they expect to attend to apprise themselves of the course requirements for admission.

Admission standards for medical and dental schools are set by the individual professional school, whose specific requirements should be reviewed with the help of the UT Dallas Health Professions Advising Center (HPAC). Most professional schools prefer that admission applications be channeled through the HPAC.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

4. Six semester credit hours of Calculus are counted under Mathematics Core and Component Area Option and 2 semester credit hours of Calculus are counted as Major Preparatory Courses.

5. Students may substitute MATH 2413 and MATH 2414 by taking MATH 2417 and MATH 2419.

6. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

7. Up to 3 semester credit hours of individual instruction may be used in fulfilling this requirement for BA degree. Up to 6 semester credit hours of individual instruction may be used in fulfilling this requirement for BS degree.

8. Up to 3 semester credit hours of individual instruction may be used in fulfilling this requirement.

9. NATS 4390 counts as an upper-division Biology Elective.
Bachelor of Science in Healthcare Management and Biology (Double Major)

Degree Requirements (149 semester credit hours)¹,²

I. Core Curriculum Requirements: 42 semester credit hours³

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
HET 1302 Rhetoric

Mathematics: 3 semester credit hours

MATH 2413 Differential Calculus⁴, ⁵, ⁶

Life and Physical Sciences: 6 semester credit hours

CHEM 1311 General Chemistry I⁷
CHEM 1312 General Chemistry II⁸

Language, Philosophy and Culture: 3 semester credit hours

Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours

Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours

GOVT 2305 American National Government
II. Major Requirements: 92 semester credit hours

Biology Major Preparatory Courses: 24 semester credit hours beyond Core Curriculum

Chemistry
- CHEM 1111 General Chemistry Laboratory I
- CHEM 1112 General Chemistry Laboratory II
- CHEM 1311 General Chemistry I
- CHEM 1312 General Chemistry II
- CHEM 2123 Introductory Organic Chemistry Laboratory I
- CHEM 2125 Introductory Organic Chemistry Laboratory II
- CHEM 2323 Introductory Organic Chemistry I
- CHEM 2325 Introductory Organic Chemistry II
- MATH 2413 Differential Calculus
- MATH 2414 Integral Calculus
- PHYS 2325 Mechanics and PHYS 2125 Physics Laboratory I
  or PHYS 1301 College Physics I and PHYS 2125 Physics Laboratory I
- PHYS 2326 Electromagnetism and Waves and PHYS 2126 Physics Laboratory II
  or PHYS 1302 College Physics II and PHYS 2126 Physics Laboratory II
- NATS 1101 Natural Sciences and Mathematics Freshman Seminar
- UNIV 1010 Freshman Seminar

Biology Core Courses: 29 semester credit hours

- BIOL 2111 Introduction to Modern Biology Workshop I
- BIOL 2112 Introduction to Modern Biology Workshop II
- BIOL 2281 Introductory Biology Laboratory
- BIOL 2311 Introduction to Modern Biology
- BIOL 2312 Introduction to Modern Biology II

Comment [MV1]: This should be 20 SCH beyond core curriculum without counting CHEM 1311, CHEM 1312, MATH 2413, and MATH 2414; these 4 courses are already counted in core. We only count the extra 1 hour for the math courses each (total 2 SCH).
BIOL 3101 Classical and Molecular Genetics Workshop
BIOL 3102 Eukaryotic Molecular and Cell Biology Workshop
BIOL 3161 Biochemistry Workshop I
BIOL 3162 Biochemistry Workshop II
BIOL 3301 Classical and Molecular Genetics
BIOL 3302 Eukaryotic Molecular and Cell Biology
BIOL 3361 Biochemistry I
BIOL 3362 Biochemistry II
or BIOL 3335 Microbial Physiology
or BIOL 3380 Biochemistry Laboratory

Business Major Preparatory Courses: 16 semester credit hours beyond Core Curriculum

ACCT 2301 Introductory Financial Accounting
ACCT 2302 Introductory Management Accounting
HMG 3100 Professional Development
HM 2301 Business and Public Law
EC 3101 Principles of Macroeconomics
EC 3102 Principles of Microeconomics

or MATH 2333 Matrices, Vectors, and Their Application

STAT 3360 Probability and Statistics for Management and Economics

or STAT 2332 Introductory Statistics for Life Sciences
or OPRE 3360 Managerial Methods in Decision Making Under Uncertainty

Business Core Courses: 27 semester credit hours

B.COM 3310 Business Communication
B.COM 4350 Advanced Business Communication
FIN 3320 Business Finance

ITSS 3300 Information Technology for Business

or E 3310 Operations Management

or H 3310 Organizational Behavior

MKT 3300 Principles of Marketing
PS 4305 Strategic Management
IMS 3310 International Business

III. Elective Requirements: 15 semester credit hours
Guided Electives: 15 semester credit hours

Healthcare Management Core Courses: 12 semester credit hours

HMGT 3301 Introduction to Healthcare Management
HMGT 3311 Healthcare Accounting
HMGT 4321 Introduction to Healthcare Information Systems
HMGT 3310 Healthcare Regulatory Environment

Biology (3 semester credit hours):

BIOL 4380 Cell and Molecular Biology Laboratory or approved upper-division biology course.

Each student is expected to complete a minimum of 160 hours of business-related work to fulfill the JSOM professional practicum requirement.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Degree is 150 semester credit hours if students are required to take A 1100 or ATS 1101.

3. Curriculum requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major requirements at UT Dallas.

4. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

5. Six semester credit hours of Calculus are counted under Mathematics Core and Component Area Option Core, and 2 semester credit hours of Calculus are counted as Biology Major Preparatory Courses.

6. Students may substitute MATH 2413 and MATH 2414 by taking MATH 2417 and MATH 2419.

7. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

8. Students may substitute MATH 2418 or CS P 305 [305]

Comment [DDC2]: Should this sentence be on the Bio version of the degree plan so they are match? Yes per Kaplan, 2-22-15 email.

Comment [DDC3]: Footnote was not listed even though the footnote notation is above
School of Natural Sciences and Mathematics

Faculty List Placeholder

Bachelor of Arts in Biology and Criminology (Double Major)

Degree Requirements (134-139 semester credit hours)\(^1\)

I. Core Curriculum Requirements: 42 semester credit hours\(^2\)

Communication: 6 semester credit hours

- COMM 1311 Survey of Oral and Technology-based Communication
- RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

Choose one from the following:

- MATH 1325 Applied Calculus\(^3\)
- MATH 2413 Differential Calculus\(^4, 5\)

Life and Physical Sciences: 6 semester credit hours

- CHEM 1311 General Chemistry\(^3\)
- CHEM 1312 General Chemistry II\(^3\)

Language, Philosophy and Culture: 3 semester credit hours

Select any 3 semester credit hours from Language, Philosophy, and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours

- HIST 1301 U.S. History Survey to Civil War
- HIST 1302 U.S. History Survey from Civil War

Select any 6 semester credit hours from American history core courses (see advisor)

Government / Political Science: 6 semester credit hours

\(^1\) Increase to 131-136 if major requirements section are revised.

\(^2\) If add the revised CRIM core then 134-139.

\(^3\) \(1\) of

\(^4\) \(2\) of

\(^5\) \(3\) of
GVT 2305 American National Government
GVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

Choose one from the following:

- CIM 1301 Introduction to Criminal Justice
- CIM 1307 Introduction to Crime and Criminology
- ECIM 2301 Principles of Macroeconomics
- SOC 1301 Introduction to Sociology

or select any 3 semester credit hours from Social and Behavioral Sciences core courses (see advisor)

Component Area Option: 6 semester credit hours

- MATH 2414 Integral Calculus
- STAT 2332 Introductory Statistics for Life Sciences
- EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Sciences
- EPPS 2303 Descriptive and Inferential Statistics for the Social and Policy Sciences
- EPPS 2302 Principles of Microeconomics

II. Major Requirements: 77-82 semester credit hours

Biology Major Preparatory Courses: 18-20 semester credit hours beyond Core Curriculum

- CHEM 1111 General Chemistry Laboratory I
- CHEM 1112 General Chemistry Laboratory II
- CHEM 1311 General Chemistry I
- CHEM 1312 General Chemistry II
- CHEM 2123 Introductory Organic Chemistry Laboratory I
- CHEM 2125 Introductory Organic Chemistry Laboratory II
- CHEM 2323 Introductory Organic Chemistry I
- CHEM 2325 Introductory Organic Chemistry II
- MATH 2413 Differential Calculus and MATH 2414 Integral Calculus
- STAT 2332 Introductory Statistics for Life Sciences
- EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Sciences
- PHYS 2325 Mechanics and PHYS 2125 Physics Laboratory I
- PHYS 1301 College Physics I and PHYS 2125 Physics Laboratory II
- PHYS 2326 Electromagnetism and Waves and PHYS 2126 Physics Laboratory II
- PHYS 1302 College Physics II and PHYS 2126 Physics Laboratory II

Comment [DDC3]: Title change for 2015 catalog
Comment [MV4]: See Criminology Major Preparatory Courses section. Increase to 74-79?
Comment [DDC5]: Title updated for 2015 catalog
Deleted: Statistics for Life Sciences
Biology Major Core Courses: 32 semester credit hours

- BIOL 2111 Introduction to Modern Biology Workshop I
- BIOL 2112 Introduction to Modern Biology Workshop II
- BIOL 2281 Introductory Biology Laboratory
- BIOL 2311 Introduction to Modern Biology
- BIOL 2312 Introduction to Modern Biology II
- BIOL 3101 Classical and Molecular Genetics Workshop
- BIOL 3102 Eukaryotic Molecular and Cell Biology Workshop
- BIOL 3161 Biochemistry Workshop I
- BIOL 3162 Biochemistry Workshop II
- BIOL 3301 Classical and Molecular Genetics
- BIOL 3302 Eukaryotic Molecular and Cell Biology
- BIOL 3318 Forensic Biology
- BIOL 3361 Biochemistry I
- BIOL 3362 Biochemistry II
  or BIOL 3335 Microbial Physiology
- BIOL 3380 Biochemistry Laboratory

Criminology Major Preparatory Courses: 3-6 semester credit hours beyond Core Curriculum

- CRIM 1301 Introduction to Criminal Justice
- CRIM 1307 Introduction to Crime and Criminology
- ECON 2301 Principles of Macroeconomics
  or ECON 2302 Principles of Microeconomics

Criminology Core Courses: 24 semester credit hours

- CRIM 3300 Crime and Civil Liberties
- CRIM 3302 Advanced Criminology
- CRIM 3303 Advanced Criminal Justice
- CRIM 3310 Youth Crime and Justice
- CRIM 4311 Crime and Justice Policy
- CRIM 4322 Senior Research Seminar

And Distributive Justice Focus
Choose one course from the following (3 semester credit hours):

- CRIM 3301 Theories of Justice
- ECON 4330 Law and Economics
- SOC 4302 Class, Status and Power

And International or Comparative Focus

Choose one course from the following (3 semester credit hours):

- CRIM 3319 Comparative Justice Systems
- ECON 4360 International Trade
- PSCI 3350 Comparative Politics
- SOC 3336 Culture Regions

III. Elective Requirements: 15 semester credit hours

Guided Electives: 15 semester credit hours

(6 semester credit hours):

- BIOL 4380 Cell and Molecular Biology Laboratory

Criminology Related Electives: 9 semester credit hours

All students must complete at least 51 semester credit hours of upper-division courses to graduate.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum requirements can be fulfilled by other approved courses from accredited institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major requirements at UT Dallas.

3. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

4. Six semester credit hours of Calculus are counted under Mathematics Core and Component Area Option Core, and 2 semester credit hours of Calculus are counted as Major Preparatory Courses.

5. Students may substitute MATH 2413 and MATH 2414 by taking MATH 2417 and MATH 2419.

6. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

7. The double major of Biology and Criminology's total degree semester credit hours will be 135-140 if incoming freshmen take ATS 1101 or EPPS 1110.

8. To be taken upon completion of Criminology core courses.
School of Natural Sciences and Mathematics

Chemistry (BA, BS)

The Chemistry major builds on a base of chemistry, physics, mathematics, and computer science to provide the student the opportunity to develop essential theoretical and practical skills in the subdisciplines of organic, physical, inorganic, analytical, and macromolecular chemistry. Typically, the practice of chemistry in industry deals with the synthesis, analysis, and control of the many materials used in our technological society.

The Chemistry program at UT Dallas is designed to instruct the student in how chemical experiments are performed, how results are interpreted, and through its integrated laboratory sequence, to emphasize the importance of one subdisciplines in solving problems inherent to another. Meeting these goals, the Chemistry program provides the student with the flexibility to enter industry, go on to graduate school, or pursue medical, dental, and other degrees in the health sciences.

Faculty

Robert A. Welch Chair in Chemistry; Professor of Chemistry: Ray H. Baughman

Cecil and Ida Green Distinguished Chair in Systems Biology; Professor of Chemistry: A. Dean Sherry

Distinguished Chair in Natural Sciences and Mathematics; Dean of the School of Natural Sciences and Mathematics: Bruce E. Gnade, Inga H. Musselman

Professors: Kenneth J. Balkus Jr., Julia Chan, Rockford Draper, John P. Ferraris, Bruce E. Gnade, Inga H. Musselman

Professor Emeritus: Richard A. Caldwell

Research Professor: Duck Joo (D. J.) Yang

Associate Professors: Jung-Mo Ahn, Michael C. Aiewer, Gregg D. Dieckmann, Warren D. Goux, Steven H. Jelsen, Paul Pantano, John W. Sibert IV, Mihaela C. Stefan, Jie Zheng

Assistant Professors: Jeremiah J. Gassensmith, Jiyong Lee, Ronald A. Smaldone

Senior Lecturers: Sergio Cortes, Sandhya Chabla, Jason McAfee, Yanping Qin, Amandeep Sra, Claudia Taenzler

Affiliated Faculty: Vee A. Chabla, Yves Chalal, Lev D. Gelb, Amy V. Walker, Anvar A. Zakhidov

Degrees

The Chemistry major may choose a program leading either to the BA or BS degree. The latter degree sequence has been approved by the American Chemical Society's Committee on Professional Training.

BA Program

The BA program offers the minimum fundamental knowledge required for adequate professional function in...
a career in chemistry. It is possible that students choosing this option may, through suitable use of unspecified semester credit hours, prepare for careers in areas as varied as chemistry-related businesses, government, medicine and dentistry, secondary school teaching, and even law or politics.

**BS Program**

The BS program provides more intensive training in chemistry for the student who intends either to obtain employment at the bachelor's level in the chemical industry or to pursue graduate study.

**UTeach Option**

The UTeach option may be added to either the BA or the BS degree in Chemistry. UTeach Dallas option degree plans are streamlined to allow students to complete both a rigorous bachelor of Science or bachelor of Arts degree and all coursework for middle or high school teacher certification in four years. Teaching option degrees require deep content knowledge combined with courses grounded in the latest research on math and science education. While most graduates go on to classroom teaching, UTeach alums are also prepared to enter graduate school and to work in discipline related industry.

**Bachelor of Arts or Bachelor of Science in Chemistry**

**Degree Requirements (120 semester credit hours)**

I. **Core Curriculum Requirements: 42 semester credit hours**

   **Communication: 6 semester credit hours**
   - CMM 1311 Survey of Rhetorical and Technology-based Communication
   - HET 1302 Rhetoric

   **Mathematics: 3 semester credit hours**
   - MATH 2417 Calculus 1
   - or MATH 2413 Differential Calculus

   **Life and Physical Sciences: 6 semester credit hours**
   - CHEM 1311 General Chemistry
   - or CHEM 1315 Honors Freshman Chemistry
   - CHEM 1312 General Chemistry II
   - or CHEM 1316 Honors Freshman Chemistry II

   **Language, Philosophy and Culture: 3 semester credit hours**
   Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

   **Creative Arts: 3 semester credit hours**
Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours
Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit

hours

GOVT 2305 American National Government
GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
Select any 3 semester credit hours from Social and Behavioral Sciences core courses (see advisor)

Component Area Option: 6 semester credit hours

MATH 2417 Calculus I\(^3,4\)
  or MATH 2413 Differential Calculus\(^3,4\)
MATH 2419 Calculus II\(^3,4\)
  or MATH 2414 Integral Calculus\(^3,4\)
PHYS 2125 Physics Laboratory\(^3,5\)

II. Major Requirements: BS 61-62 semester credit hours; BA 60-61 semester credit hours

Major Preparatory Courses: 28-29 semester credit hours beyond Core Curriculum

CHEM 1111 General Chemistry Laboratory I
  or CHEM 1115 Honors Freshman Chemistry Laboratory I
CHEM 1112 General Chemistry Laboratory II
  or CHEM 1116 Honors Freshman Chemistry Laboratory II
CHEM 1311 General Chemistry I\(^3\)
  or CHEM 1315 Honors Freshman Chemistry I\(^3\)
CHEM 1312 General Chemistry II\(^3\)
  or CHEM 1316 Honors Freshman Chemistry II\(^3\)
CHEM 2123 Introductory Organic Chemistry Laboratory I\(^6\)
CHEM 2125 Introductory Organic Chemistry Laboratory II\(^6\)
CHEM 2323 Introductory Organic Chemistry I\(^6\)
CHEM 2325 Introductory Organic Chemistry II\(^6\)
CHEM 2401 Introductory Quantitative Methods in Chemistry
MATH Sequence - Students may choose one of the following sequences:

I. MATH 2413 Differential Calculus\textsuperscript{3, 4} and MATH 2414 Integral Calculus\textsuperscript{3, 4} and MATH 2415 Calculus of Several Variables and MATH 2418 Linear Algebra or STAT 2332 Introductory Statistics for Life Sciences

II. MATH 2417 Calculus I\textsuperscript{3, 4} and MATH 2419 Calculus II\textsuperscript{3, 4} and MATH 2451 Multivariable Calculus with Applications and MATH 2418 Linear Algebra or STAT 2332 Introductory Statistics for Life Sciences

PHYS 2125 Physics Laboratory I\textsuperscript{3, 5} PHYS 2126 Physics Laboratory II PHYS 2325 Mechanics PHYS 2326 Electromagnetism and Waves

Major Core Courses: 11 semester credit hours

CHEM 3321 Physical Chemistry I CHEM 3471 Advanced Chemical Synthesis Laboratory CHEM 3472 Instrumental Analysis

Major Related Courses: BS 22 semester credit hours; BA 21 semester credit hours

Bachelor of Arts: 21 semester credit hours

BIOL 3361 or CHEM 3361 Biochemistry I or CHEM 4335 Polymer Chemistry CHEM 3341 Inorganic Chemistry I or CHEM 3322 Physical Chemistry II

Guided Electives: 12 semester credit hours

May be used in (partial) fulfillment of a Second Major, Minor or Teaching Certificate

Advanced Writing

NATS 4310 Advanced Writing in the Natural Sciences and Mathematics

Comment [DDC1]: Should be 21 to match count and listing above

Deleted: 18
Bachelor of Science: 22 semester credit hours beyond Core Curriculum

- CHEM 3322 Physical Chemistry II
- CHEM 3341 Inorganic Chemistry I
- CHEM 3361 or CHEM 3361 Analytical Chemistry I
- CHEM 4473 Physical Measurements Laboratory
- CHEM 4390 Research and Advanced Writing in Chemistry
  - or CHEM 4399 Research and Advanced Writing in Chemistry for Honors Students
- CHEM 4V91 (3 semester credit hours) Research in Chemistry
  - or CHEM 4362 Polymer Chemistry
  - or CHEM 4355 Computational Modeling

III. Elective Requirements: BS 16-17 semester credit hours; BA 17-18 semester credit hours

6 semester credit hours must be outside the major and be upper-division and/or have prerequisites.

- For □ S: 17 semester credit hours needed if enroll in STAT 2332 in Math Sequence (II. Major Requirements): 16 semester credit hours needed if enroll in MATH 2418 in Math Sequence.
- For □ A: 18 semester credit hours needed if enroll in STAT 2332 in Math Sequence (II. Major Requirements): 17 semester credit hours needed if enroll in MATH 2418 in Math Sequence.

The plan must include sufficient upper-division courses to total 51 upper-division semester credit hours.

Fast Track Baccalaureate/Master's Degrees

Undergraduate students at UT Dallas with strong academic records who intend to pursue the MS in Chemistry at UT Dallas may apply for a Fast Track plan of study which involves taking selected graduate courses as an upper-level student. After Fast Track admission to the graduate program, 15 semester credit hours of graduate courses with an earned grade of □ or better can be used toward completion of the baccalaureate degree and to satisfy requirements for the master's degree. Interested students should contact the undergraduate advisor well in advance of the junior year to prepare a sequence permitting maximal advantage to be taken of the catalog's regulations (see catalog.utdallas.edu/2014/undergraduate/policies, graduate-courses) regarding Undergraduate Registration for Graduate Courses.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major...
Requirements at UT Dallas.

3. A required Major course that also fulfills Core Curriculum requirements. If semester credit hours are counted in the Core Curriculum, students must complete additional coursework to meet the minimum requirement for graduation. Course selection assistance is available from the undergraduate advisor.

4. Three semester credit hours of Calculus are counted to fulfill the Mathematics Core requirement with the remaining five semester credit hours to be counted under Component Area Option Core.

5. Six semester credit hours of Physics are counted under Science core, and one semester of Physics (PHYS 2125) are counted under Component Area Option core.

6. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

7. Research in Chemistry (CHEM 4V91), Research and Advanced Writing in Chemistry (CHEM 4390), and Research and Advanced Writing in Chemistry for Honors Students (CHEM 4399) are better defined as a project than a course and constitute an important part of the BS degree. The student conducts original research under the supervision of a faculty member, and then must submit a research report which is defended orally. Normally this project will span two or more semesters. A complete set of guidelines is available from the undergraduate advisor.
Met with Dr. Ferguson on 12-11-14 to review degree; made changes on paper. Incorporated changes as requested.

http://catalog.utdallas.edu/2015/undergraduate/programs/nsm/geosciences

School of Natural Sciences and Mathematics

Geosciences (BS)

Attaining greater understanding of past and present Earth processes is the fundamental goal of geosciences. To achieve this goal the geoscientist studies the minerals, rocks, fluids, and fossils of the Earth and investigates the physical, chemical, and biological processes occurring on and in the Earth.

Professional opportunities in geology exist in the environmental, energy, and mineral resources industries and in government agencies concerned with these fields. In addition, many occupations concerned with law, management, economics, and the environment utilize a background in geosciences.

Specific degree plans will be formulated by the undergraduate advisor in Geosciences. Changing circumstances may require changes to the degree plans.

The UTeach option may be added to the BS degree in Geosciences. UTeach Dallas option degree plans are streamlined to allow students to complete both a rigorous Bachelor of Science degree and all coursework for middle or high school teacher certification in four years. Teaching option degrees require deep content knowledge combined with courses grounded in the latest research on math and science education. While most graduates go on to classroom teaching, UTeach alums are also prepared to enter graduate school and to work in discipline related industry.

Faculty

Professors: Carlos L. V. Aiken, John F. Ferguson, John W. Geissman, William I. Manton, George A. McMechan, John S. Mitterer, Robert H. Rutford

Professors Emeritus: David E. Dunn, Richard M. Mitterer, Emile A. Pessagno Jr., Dean C. Presnall, Robert H. Rutford

Associate Professors: Thomas H. Erikowski

Associate Professor Emeritus: James C. Carter

Senior Lecturers: William R. Griffin, Ignacio Pujana

Bachelor of Science in Geosciences

Degree Requirements (120 semester credit hours)¹

I. Core Curriculum Requirements: 42 semester credit hours²

Communication: 6 semester credit hours
COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Mathematics: 3 semester credit hours
MATH 2413 Differential Calculus
or MATH 2417 Calculus

Life and Physical Sciences: 6 semester credit hours
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II

Language, Philosophy and Culture: 3 semester credit hours
Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours
Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours
Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours
GOVT 2305 American National Government
GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
Select any 3 semester credit hours from Social and Behavioral Sciences core courses (see advisor)

Component Area Option: 6 semester credit hours
GEOS 1303 Physical Geology
GEOS 1304 History of Earth and Life

II. Major Requirements: 62-70 semester credit hours

Major Preparatory Courses: 21 semester credit hours beyond Core Curriculum
Prerequisite courses to be completed before enrolling in upper-division GEOS courses.

CHEM 1111 General Chemistry Laboratory I
CHEM 1112 General Chemistry Laboratory II
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOS 1303 Physical Geology
GEOS 1304 History of Earth and Life
GEOS 1103 Physical Geology Laboratory
GEOS 1104 History of Earth and Life Laboratory
GEOS 2409 Rocks and Minerals
MATH 2413 Differential Calculus
   or MATH 2417 Calculus
MATH 2414 Integral Calculus
   or MATH 2419 Calculus II
PHYS 2325 Mechanics
PHYS 2125 Physics Laboratory I
PHYS 2326 Electromagnetism and Waves
PHYS 2126 Physics Laboratory II

Major Core Courses: 27 semester credit hours
GEOS 2306 Essentials of Field Geologic Methods
GEOS 3300 Field Geology I (Summer Field Camp I)
GEOS 3421 Stratigraphy and Sedimentology
GEOS 3464 Igneous and Metamorphic Petrology
GEOS 3470 Structural Geology
GEOS 4300 Field Geology II (Summer Field Camp II)
GEOS 4320 The Physics and Chemistry of the Solid Earth
GEOS 4390 Communication in the Geosciences

Students may select either the Geology Option or the Geophysics Option.

A. Geology Option: 14-15 semester credit hours
GEOS 3434 Paleobiology
GEOS 4322 The Earth System
GEOS 4430 Hydrogeology and Aqueous Geochemistry

A mathematics course selected from:
GEOS 5306 Data Analysis for Geoscientists (with permission)
MATH 2418 Linear Algebra
MATH 2451 Multivariable Calculus with Applications
PHYS 3330 Numerical Methods in Physics and Computational Techniques
III. Elective Requirements: **8-16** semester credit hours (**15** or **16** semester credit hours for Geology Option; **8** semester credit hours for Geophysics Option)

**Electives: 6 semester credit hours**

All students are required to take at least six semester credit hours of electives outside their major field of study. These must be either upper-division classes or lower-division classes that have prerequisites.

Free Electives: **8-16** semester credit hours (**15** or **16** semester credit hours for Geology Option; **8** semester credit hours for Geophysics Option)

Both lower- and upper-division courses may count as electives, but students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation. Students are strongly encouraged to take GEOS graduate courses as free electives.

### Fast Track Baccalaureate/Master's Degrees

The Fast-Track program allows students with strong academic records to take selected graduate courses that may be applied toward the baccalaureate degree and be used to satisfy requirements for the master's degree. Interested students who intend to pursue a master's degree in Geosciences may apply for a Fast Track baccalaureate/master's plan of study via the Geosciences graduate advisor. The planned coursework must be coordinated with the Geosciences undergraduate advisor; the Geosciences graduate advisor should also be notified. A maximum of 15 semester credit hours may be applied under this program.

1. **Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.**
2. Curriculum requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major requirements at UT Dallas.
3. A Major requirement that also fulfills a Core Curriculum requirement.
4. Three semester credit hours are counted to fulfill the Mathematics Core requirement with the remaining semester credit hour to be counted under the major requirements.
School of Natural Sciences and Mathematics

Mathematics (BS)

Mathematics is both a profession and an indispensable tool for many types of work. As a tool, mathematics is a universal language that has been crucial in formulating and expressing ideas not only in science and engineering, but also in many other areas such as business and the social sciences. As probably the oldest and most basic science, it provides the key to understanding the major technological achievements of our time.

If equal importance, knowledge of mathematics may help provide a student with the type of uncompromising and clear-sighted thinking useful in considering the problems of many other disciplines. The Mathematics degree program encompasses mathematics, statistics, and applied mathematics. The Mathematical Sciences Department also administers a Bachelor of Science in Actuarial Science.

Those interested in obtaining both a BS in Mathematics and Teacher Certification in the state of Texas should consult the Teacher Development Center or UTeach Dallas office for specific requirements as soon as possible after formal admission to the university. See the Teacher Education Certification Programs section of the catalog for additional information.

The Mathematics degree program also prepares students for graduate studies. An accelerated BS/MS Fast Track program is available which provides the opportunity for undergraduate students to satisfy some of the requirements of the master's degree while they are completing the bachelor's degree in Mathematics.

Faculty

Professors: Larry P. Ammann, Talman I. Balanov, Michael I. Baron, Vladimir Dragovic, Sam Efremovich, Matthew Goeckner, M. Ali Hooshyar, Wieslaw rawcewich, Susan E. Minkoff, Felipe Pereira, Dmitry achinskiy, Viswanath Ramakrishna, Robert Serfling, John Turi, John Weck

Professors Emeritus: Patrick Boedell, Ivor Robinson, John W. Van Ness

Associate Professors: Swati Biswas, Yan Cao, Pankaj Chaudhary, Mieczyslaw Dabkowski, Yulia Gel

Assistant Professors: Mohammad Akbar, Maxim Arnold, Chihargab Chattopadhyay, Min Chen, Tobias Hagge, Minwen Hu, Frank Conierschke, Yifei Lou, Oleg Makarenkov, Tomoki Oshawa, Dongxia Song

Clinical Professor: Donald D. Dearing

Clinical Associate Professor: Catalina Humphreys

Senior Lecturers II: David Lewis, Paul Stanford

Senior Lecturers I: Manjula Foley, Bentley T. Garrett, Yuly Oshevnik, William M. Scott

Senior Lecturers: Diana Cogan, Malgorzata Dabkowska, Anatoly Eydelzon, Brady McCary, Tigrakumar Patel

Affiliated Faculty: Hervé Abdi, Titu Andreescu, Alain Bensoussan, Daimund Ober, John Wiorkowski

Adjunct Faculty from the Research for Mathematics of the Mexican Council and Technology (CIMAT): Joaquin Jaramillo, Patrick L. Thiel, and N. C. Vidal
The Program in Mathematics

Students seeking a degree in Mathematics may specialize in Mathematics, Statistics, or Applied Mathematics, and receive a BS degree. Each specialization allows some flexibility in electives so that students can better adapt their degree plans to their educational goals.

Mathematics Specialization: For students interested in a career in mathematics and for students interested in continuing on to graduate work in mathematics, applied mathematics, math education, and related areas.

Statistics Specialization: For students interested in probability and statistical models and their use in data analysis and decision-making and for students interested in continuing on to graduate work in statistics, biostatistics, actuarial science, and other statistics related areas.

Applied Mathematics Specialization: For students interested in mathematics for the purpose of using it broadly in various areas of application and for students interested in continuing on to graduate work in applied mathematics and related areas.

The UTeach option may be added to the BS degree in Mathematics. UTeach Dallas degree plans are streamlined to allow students to complete both a rigorous Bachelor of Science or Bachelor of Arts degree and all coursework for middle or high school teacher certification in four years. Teaching option degrees require deep content knowledge combined with courses grounded in the latest research on math and science education. While most graduates go on to classroom teaching, UTeach alums are also prepared to enter graduate school and to work in discipline related industry.

Bachelor of Science in Mathematics

Degree Requirements (120 semester credit hours)\(^1\)
All majors with specialization in either Mathematics or Statistics are strongly urged to meet with assigned departmental advisors every semester.

I. Core Curriculum Requirements: 42 semester credit hours\(^2\)

Communication: 6 semester credit hours

- COMM 1311 Survey of Oral and Technology-based Communication
- RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

- MATH 2417 Calculus I\(^3,4\)

Life and Physical Sciences: 6 semester credit hours\(^5\)

Mathematics/Applied Mathematics Specialization

- PHYS 2325 Mechanics
or **PHYS 2421** Honors Physics I - Mechanics and Heat

**PHYS 2326** Electromagnetism and Waves

or **PHYS 2422** Honors Physics II - Electromagnetism and Waves

**Statistics Specialization**

**PHYS 2325** Mechanics

or **PHYS 2421** Honors Physics I - Mechanics and Heat

**PHYS 2326** Electromagnetism and Waves

or **PHYS 2422** Honors Physics II - Electromagnetism and Waves

| or **CHEM 1311** General Chemistry I |
| or **CHEM 1312** General Chemistry II |

**Language, Philosophy and Culture: 3 semester credit hours**

**HUMA 1301** Exploration of the Humanities

Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

**Creative Arts: 3 semester credit hours**

**ARTS 1301** Exploration of the Arts

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

**American History: 6 semester credit hours**

Select any 6 semester credit hours from American history core courses (see advisor)

**Government/Political Science: 6 semester credit hours**

**GOVT 2305** American National Government

**GOVT 2306** State and Local Government

**Social and Behavioral Sciences: 3 semester credit hours**

Select any 3 semester credit hours from Social and Behavioral Sciences core courses (see advisor)

**Component Area Option: 6 semester credit hours**

**MATH 2417** Calculus I$^{3,4}$

**MATH 2419** Calculus II$^{3,4}$
II. Major Requirements: 48-49 semester credit hours

Major Preparatory Courses: 15-16 semester credit hours beyond Core Curriculum

For Mathematics Specialization

PHYS 2125 Physics Laboratory I
PHYS 2325 Mechanics
PHYS 2126 Physics Laboratory II
PHYS 2326 Electromagnetism and Waves

For Statistics Specialization

PHYS 2125 Physics Laboratory I
PHYS 2325 Mechanics
PHYS 2126 Physics Laboratory II
PHYS 2326 Electromagnetism and Waves

CHEM 1111 General Chemistry Laboratory I
CHEM 1112 General Chemistry Laboratory II
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II

For All

MATH 2370 Introduction to Programming with MATLAB
CS 1325 Introduction to Programming

CS 1337 Computer Science
MATH 2417 Calculus I
MATH 2418 Linear Algebra
MATH 2419 Calculus II
MATH 2420 Differential Equations with Applications
MATH 2451 Multivariable Calculus with Applications

Major Core Courses: 21 semester credit hours

MATH 3310 Theoretical Concepts of Calculus
III. Elective Requirements: 29-30 semester credit hours

Electives: 30 semester credit hours

All students are required to take at least six semester credit hours of electives outside their major field of study. These must be either upper-division classes or lower-division classes that have prerequisites.

Each lower- and upper-division courses may count as electives, but the student must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

**NOTE:** Students transferring into Mathematics at the upper-division level are expected to have completed all of the 1000- and 2000-level mathematics core course requirements.
Fast Track Baccalaureate/Master's Degrees

For students interested in pursuing graduate studies in Mathematics, the Mathematics Department offers an accelerated BS / MS Fast Track that involves taking graduate courses instead of several advanced undergraduate courses. Acceptance into the Fast Track is based on the student's attaining a GPA (grade point average) of at least 3.200 in all mathematics classes and being within 30 semester credit hours of graduation. Fast Track students may, during their senior year, take 15 graduate semester credit hours that may be used to complete the baccalaureate degree. After Fast Track admission to the graduate program, these 15 graduate semester credit hours may also satisfy requirements for the master's degree. Fast Track programs are offered in mathematics with specializations in applied mathematics and statistics.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major requirements at UT Dallas.

3. A required Major course that also fulfills Core Curriculum requirements. If semester credit hours are counted in the Core Curriculum, students must complete additional coursework to meet the minimum requirement for graduation. Course selection assistance is available from the undergraduate advisor.

4. Three semester credit hours of Calculus are counted to fulfill the Mathematics Core requirement with the remaining five semester credit hours to be counted under Component Area B. MATH 2417.

5. Six semester credit hours of Physics are counted under Science core, and one semester credit hour of Physics (PHYS 2125) is counted under Component Area B.

6. Indicates a prerequisite class to be completed before enrolling in upper-division classes.

7. MATH 2417 and MATH 2419 requirements can be fulfilled by completing MATH 2413, MATH 2414, and MATH 2415.

8. Approval of Mathematics department advisor required.

9. Another MATH course, i.e. MATH 3380, may be substituted if MATH 3321 is not offered.
The Biology Program at UT Dallas emphasizes the unifying molecular and cellular nature of organisms. At the center of the Biology undergraduate curriculum are the biochemical, genetic, and cell biology concepts and tools used to study the genes of prokaryotes and eukaryotes, to study the proteins and ribonucleic acids (RNA) encoded by these genes, and to study how the expression of these genes is regulated during the development and lifetimes of organisms. Molecular Biology represents a fusion of the four disciplines of biochemistry, biophysics, genetics, and cell biology. Modern biology requires a background in other disciplines such as chemistry, mathematics, physics, and computer sciences. Principles from these disciplines have to be merged to understand and apply new biotechnology and genetic engineering techniques. It is desirable for entering students to have a broad interest and background in the sciences.

Molecular Biology (BS)

A BS degree is offered in Molecular Biology. The BS degrees are intended as preparation for scientific careers in biology or careers in the health professions. Biology offers a streamlined double major with Business Administration or Criminology. Fast Track BS / MS Biology and Molecular Biology degree programs are available.

Minors are offered in Biology, Biomolecular Structure, Microbiology, Molecular and Cell Biology, and Neurobiology.

Faculty

Professors: Lee A. Bulla, Rockford K. Draper, Juan E. González, Lawrence J. Reitzer, Stephen Spiro, Li Zhang, Michael Qiwei Zhang

Professors Emeritus: Hans Bremer, Donald M. Gray, Claud S. Rupert

Associate Professors: Gail A. M. Breen, John G. Burr, Jeff L. DeJong, Ernest M. Hannig, Tae Hoon Kim, Dennis L. Miller

Assistant Professors: Nikki Delk, Heng Du, Jung-ghan (Jay) Kim, Kelli Palmer, Anh T. Tran, Duane D. Winkler, Zhenyu Xuan, Hyuntae Yoo

Research Assistant Professor: Lan Guo

Senior Lecturers: Irina Borovkov, Mehmet Candas, Vincent P. Cirillo, Monique Duncan, Brenna Hill, Wen-Ju Lin, Li Liu, Robert C. Marsh, David Murchison, Jing Pan, Elizabeth Pickett, Ruben D. Ramirez, Scott A. Rippel, Elizabeth L. Rugg, Ilya Sapochnikov, Uma Srikant, Michelle Wilson, Wen-Ho Yu

Lecturers: Uyen Henson, John Kolar

Bachelor of Science in Molecular Biology
Degree Requirements (120 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

- Communication: 6 semester credit hours
  - COMM 1311 Survey of Oral and Technology-based Communication
  - RHET 1302 Rhetoric

- Mathematics: 3 semester credit hours
  - MATH 2417 Calculus I

- Life and Physical Sciences: 6 semester credit hours
  - CHEM 1311 General Chemistry I
  - CHEM 1312 General Chemistry II

- Language, Philosophy and Culture: 3 semester credit hours
  - Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

- Creative Arts: 3 semester credit hours
  - Select any 3 semester credit hours from Creative Arts core courses (see advisor)

- American History: 6 semester credit hours
  - Select any 3 semester credit hours from American History core courses (see advisor)

- Government / Political Science: 6 semester credit hours
  - GOVT 2305 American National Government
  - GOVT 2306 State and Local Government

- Social and Behavioral Sciences: 3 semester credit hours
  - Select any 3 semester credit hours from Social and Behavioral Sciences core courses (see advisor)

- Component Area Option: 6 semester credit hours
  - BIOL 2311 Introduction to Modern Biology I
  - MATH 2419 Calculus II

II. Major Requirements: 69 semester credit hours
Major Preparatory Courses: 24-25 semester credit hours beyond Core Curriculum

- CHEM 1111 General Chemistry Laboratory I
- CHEM 1112 General Chemistry Laboratory II
- CHEM 1311 General Chemistry III
- CHEM 1312 General Chemistry II
- CHEM 2123 Introductory Organic Chemistry Laboratory I
- CHEM 2125 Introductory Organic Chemistry Laboratory II
- CHEM 2323 Introductory Organic Chemistry I
- CHEM 2325 Introductory Organic Chemistry II
- MATH 2417 Calculus I
- MATH 2418 Linear Algebra
- MATH 2419 Calculus II
- PHYS 2125 Physics Laboratory I
- PHYS 2126 Physics Laboratory II
- PHYS 2325 Mechanics
- PHYS 2326 Electromagnetism and Waves
- NATS 1101 Natural Sciences and Mathematics Freshman Seminar
- UNIV 1010 Freshman Seminar

Comment [DDC1]: There are 24 SCH without the NATS1000. Transfer students will be okay but incoming Freshmen will have 25 SCH in this section.

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Major Core Courses: 33 semester credit hours beyond Core Curriculum

- BIOL 2111 Introduction to Modern Biology Workshop I
- BIOL 2112 Introduction to Modern Biology Workshop II
- BIOL 2201 Introductory Biology Laboratory
- BIOL 2311 Introduction to Modern Biology I
- BIOL 2312 Introduction to Modern Biology II
- BIOL 3101 Classical and Molecular Genetics Workshop
- BIOL 3102 Eukaryotic Molecular and Cell Biology Workshop
- BIOL 3161 Biochemistry Workshop I
- BIOL 3162 Biochemistry Workshop II
- BIOL 3301 Classical and Molecular Genetics
- BIOL 3302 Eukaryotic Molecular and Cell Biology
- BIOL 3361 Biochemistry I
- BIOL 3362 Biochemistry II

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or BIOL 3335 Microbial Physiology
- BIOL 3380 Biochemistry Laboratory

BIOL 4380 Cell & Molecular Biology Laboratory

or BIOL 3V96 (3 semester credit hours) Undergraduate Research in Molecular and Cell Biology

or BIOL 4399 (3 semester credit hours) Senior Honors Research in Molecular and Cell Biology

or BIOL 4391 (3 semester credit hours) Senior Research in Molecular and Cell Biology

BIOL 4461 Biophysical Chemistry

Major Related Courses: 12 semester credit hours

12 semester credit hours upper-division approved molecular biology-related BIOL or CHEM electives

III. Elective Requirements: 9 semester credit hours

Free Electives: 9 semester credit hours

All students must complete at least 51 semester credit hours of upper-division courses to graduate.

Fast Track Baccalaureate/Master's Degrees

UT Dallas undergraduate students with strong academic records, including at least 15 semester credit hours of upper-division Biology core courses, who intend to pursue graduate work in Biology at UT Dallas, may apply for the Fast Track which involves taking selected graduate courses as an upper-division level student. After Fast Track admission to the graduate program, 15 semester credit hours of graduate courses with an earned grade of B or better can be used toward completion of the BS and to satisfy requirements for those courses at the graduate level. Graduate courses must be approved by the graduate advisor. This program provides an opportunity to obtain the BS degree in Biology after 120 semester credit hours of work and an MS degree in Molecular and Cell Biology after an additional 21 semester credit hours of graduate course and research work. Interested students should contact the Biology undergraduate advisor well in advance of the senior year to prepare a degree plan taking maximal advantage of this Fast Track program.

Degree Planning

Upper-division biology courses taken at other institutions may be included as part of the degree plan subject to the provisions of the section on Transfer Admissions.

Major-related courses may not include more than 9 semester credit hours (BS) or 6 semester credit hours (BA) of upper-division transfer credit and not more than 3 semester credit hours (Biology major) or 6 semester credit hours (Molecular Biology major) of individual instruction (e.g., BIOL 3V90, BIOL 3V91, BIOL 3V92, BIOL 3V95, BIOL 3V96, BIOL 4302, BIOL 4309, BIOL 4391, BIOL 4398, BIOL 4399, BIOL 4V98, or BIOL 4V99).

Students planning a career in a particular allied health profession should consult the school they expect to attend to apprise themselves of the course requirements for admission.
Admission standards for medical and dental schools are set by the individual professional school, whose specific requirements should be reviewed with the help of the UT Dallas Health Professions Advising Center (HPAC). Most professional schools prefer that admission applications be channeled through the HPAC.

1. **Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course.** Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

4. Six semester credit hours of Calculus are counted under Mathematics Core and Component Area Option and 2 semester credit hours of Calculus are counted as Major Preparatory Courses.

5. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

6. These substitutes for BIOL 4380 require permission of the Biology Undergraduate Advisor to ensure equivalent training in recombinant DNA analysis.

7. Up to 6 semester credit hours of research may be used in fulfilling the major related course requirement.
Bachelor of Science in Healthcare Management and Molecular Biology (Double Major)

Degree Requirements (153 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

MATH 2417 Calculus I, 5

Life and Physical Sciences: 6 semester credit hours

CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II

Language, Philosophy and Culture: 3 semester credit hours

Select any 3 semester credit hours from Language, Philosophy and Culture core courses (see advisor)

Creative Arts: 3 semester credit hours

Select any 3 semester credit hours from Creative Arts core courses (see advisor)

American History: 6 semester credit hours

Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours

GVT 2305 American National Government
GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

EC 2301 Principles of Macroeconomics

Component Area Option: 6 semester credit hours

MATH 2419 Calculus II

EC 2302 Principles of Microeconomics

Major Requirements: 96 semester credit hours

Biology Major Preparatory Courses: 20 semester credit hours beyond Core Curriculum

CHEM 1111 General Chemistry Laboratory I
CHEM 1112 General Chemistry Laboratory II
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
CHEM 2123 Introductory Organic Chemistry Laboratory I
CHEM 2125 Introductory Organic Chemistry Laboratory II
CHEM 2323 Introductory Organic Chemistry I
CHEM 2325 Introductory Organic Chemistry II
MATH 2417 Calculus I
MATH 2419 Calculus II

PHYS 2325 Mechanics

PHYS 2125 Physics Laboratory I

PHYS 2326 Electromagnetism and Waves

PHYS 2126 Physics Laboratory II

ATS 1101 Natural Sciences and Mathematics Freshman Seminar

UNIV 1010 Freshman Seminar

Biology Core Courses: 33 semester credit hours

BIOL 2111 Introduction to Modern Biology Workshop I

BIOL 2112 Introduction to Modern Biology Workshop II

BIOL 2281 Introductory Biology Laboratory

BIOL 2311 Introduction to Modern Biology

BIOL 2312 Introduction to Modern Biology II
BIOL 3101 Classical and Molecular Genetics Workshop
BIOL 3102 Eukaryotic Molecular and Cell Biology Workshop
BIOL 3161 Biochemistry Workshop I
BIOL 3162 Biochemistry Workshop II
BIOL 3301 Classical and Molecular Genetics
BIOL 3302 Eukaryotic Molecular and Cell Biology
BIOL 3361 Biochemistry I
BIOL 3362 Biochemistry II
or BIOL 3335 Microbial Physiology
BIOL 3380 Biochemistry Laboratory
BIOL 4461 Biophysical Chemistry

Business Major Preparatory Courses: 16 semester credit hours beyond Core Curriculum

ACCT 2301 Introductory Financial Accounting
ACCT 2302 Introductory Management Accounting
HMGT 3100 Professional Development
BLAW 2301 Business and Public Law
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
OPRE 3333 Quantitative Business Analysis
or MATH 2333 Matrices, Vectors, and Their Application
or STAT 2332 Introductory Statistics for Life Sciences
or STAT 3360 Probability and Statistics for Management and Economics

Business Core Courses: 27 semester credit hours

CM 3310 Business Communication
CM 4350 Advanced Business Communication
FI 3320 Business Finance
ITSS 3300 Information Technology for Business
OPRE 3310 Operations Management
HS 3310 Organizational Behavior
MKT 3300 Principles of Marketing
PS 4305 Strategic Management
IMS 3310 International Business
Elective Requirements: 15 semester credit hours

Healthcare Management Core Courses: 12 semester credit hours

- HMG 3301 Introduction to Healthcare Management
- HMG 3311 Healthcare Accounting
- HMG 4321 Introduction to Healthcare Information Systems
- HMG 3310 Healthcare Regulatory Environment

Biology (3 semester credit hours):

- BIOL 4380 Cell and Molecular Biology Laboratory
- BIOL 3V96 Undergraduate Research in Molecular and Cell Biology
- BIOL 4391 Senior Research in Molecular and Cell Biology: Advanced Writing
- BIOL 4399 Senior Honors Research in Molecular and Cell Biology: Thesis/Advanced Writing

Each student is expected to complete a minimum of 160 hours of business-related work to fulfill the S.M. professional practicum requirement.

All students must complete at least 51 semester credit hours of upper-division courses to graduate.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Degree is 154 semester credit hours if students are required to take A 1100 or ATS 1101.

3. Curriculum requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major requirements at UT Dallas.

4. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

5. Six semester credit hours of Calculus are counted under Mathematics Core and Component Area Option Core, and 2 semester credit hours of Calculus are counted as Biology Major Preparatory Courses.

6. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

7. Students may substitute MATH 2418 or CS 2305.

8. Requires permission of the Biology Undergraduate Advisor to ensure training in recombinant DNA analysis.
School of Natural Sciences and Mathematics

Physics (BA, BS)

The science of physics seeks understanding of the behavior of matter and energy at the most general and fundamental level. The physicist is trained to explore the physical universe in which people live and seeks interpretations of the natural phenomena found there. While much is known about the physical universe, many phenomena still remain to be investigated, understood, and exploited to the ultimate benefit of humankind. This is the challenge that a modern physicist faces.

Faculty

Distinguished Chair in Natural Sciences and Mathematics: Roderick A. Heelis


Distinguished Chair in Physics: Myron B. Salamon

Green Distinguished Chair in Academic Leadership: B. Hobson Wildenthal


Professor Emeritus: Ervin J. Fenyves, Walter Heikkila, Wolfgang A. Rindler, Myron B. Salamon, Brian A. Tinsley

Associate Professors: Yuri Gartstein, Mustapha Ishak-Boushaki, Mustapha Ishak-Boushaki, Lindsay J. King, David J. Lary, Anton V. Malko, Chuanwei Zhang, Jie Zhang

Assistant Professors: Lunjin Chen, Xingang Chen, Michael Kesden, Lloyd Lumata, Fabiano Rodrigues, Jason D. Slinker, Fan Zhang

Senior Lecturers: Paul MacAlevey, Beatrice Rasmussen

Affiliated Faculty: Yves J. Chabal, K. J. Cho, Christopher Hinkle, John P. Ferraris, Massimo V. Fischetti, Tobias Hagge, Hayenga, Heather, Julia W. P. Hsu, Wenchuang (Walter) Hu, Stephen D. Levene, Lawrence J. Overset, A. Dean Sherry, Mary L. Urquhart, Duck Joo (D. J.) Yang

The Degrees

The student majoring in Physics must meet the general university requirements for admission and for the specific degree the student is seeking. The Physics Program offers both the Bachelor of Arts and the Bachelor of Science degrees. A total of 120 semester credit hours is required for either degree. With the proper sequencing of courses, these degrees can be achieved in a four year period.

Bachelor of Arts

The Bachelor of Arts program provides an opportunity for a strong base in physics for students wishing to pursue graduate studies (non-physics) in, for example, business administration, economics, finance, oceanography, and patent or high technology law. Additionally, students seeking certification as high school teachers with physics as a major specialization and those seeking employment in industry, government
service, and computer technology have the opportunity to obtain the necessary physics background through the BA program. The lower-division course requirements for the BA degree are the same as those for the BS degree. At the upper-division level, 15 semester credit hours of advanced physics courses are replaced with 15 semester credit hours of science electives.

**Bachelor of Science**

The Bachelor of Science is intended for students interested in a professional career in physics or closely related fields. It provides an excellent background for graduate programs in physics, biophysics, geophysics, engineering, medicine and other health related degree programs.

**Graduate Studies Track**

The recommended course of study toward a Bachelor of Science degree for those students who intend to pursue graduate studies in Physics begins with a two-semester Honors sequence of fundamentals of physics that gives the student a more extensive foundation in basic physics. The remainder of the program is the same as the regular BS program.

**UTeach Option**

The UTeach option may be added either to the BA or BS degree in Physics. UTeach Dallas Option degree plans are streamlined to allow students to complete a rigorous Bachelor of Arts degree and all coursework for middle or high school teacher certification in four years. Teaching Option degrees require deep content knowledge, combined with courses grounded in the latest research on math and science education. While most graduates go on to classroom teaching, UTeach alumni are also prepared to enter graduate school and to work in discipline related industry.

**Algebra Based Physics**

An algebra based general physics course (PHYS 1301, PHYS 1302) with lab (PHYS 2125, PHYS 2126) is offered for students interested in the health sciences and those curious about the physical world in which we live. It stresses understanding the workings of nature and the physical processes and phenomena occurring therein.

**Minor in Physics (20 semester credit hours)**

A minor is offered that consists of PHYS 2325, PHYS 2125, PHYS 2326, PHYS 2126, PHYS 3411, and three other upper-division physics courses.

**Fast Track Baccalaureate/Master’s Degrees**

For students interested in pursuing graduate studies in physics, the Physics Department offers an accelerated BS / MS Fast Track that involves taking graduate courses in lieu of several advanced undergraduate courses. Acceptance into the Fast Track is based on the student's attaining a GPA (grade point average) of at least 3.200 on a minimum of 30 semester credit hours of upper-division courses that include PHYS 3411, PHYS 3312, PHYS 3330, PHYS 3416, PHYS 4301 and PHYS 4311. Eligible students...
may take up to 15 semester credit hours of selected graduate courses that may be used to complete the baccalaureate degree and also satisfy requirements for the master's degree. These credits will partially satisfy the MS degree requirements when the student completes the BS degree. Interested students should contact their advisor during their junior year to apply to the Fast Track program.

Bachelor of Arts in Physics

Degree Requirements (120 semester credit hours)

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Mathematics: 3 semester credit hours

MATH 2413 Differential Calculus
or MATH 2417 Calculus

Life and Physical Sciences: 6 semester credit hours

PHYS 2325 Mechanics
PHYS 2326 Electromagnetism and Waves

Language, Philosophy and Culture: 3 semester credit hours

HUMA 1301 Exploration of the Humanities

Creative Arts: 3 semester credit hours

ARTS 1301 Exploration of the Arts

American History: 6 semester credit hours

Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours

GOVT 2305 American National Government
GOVT 2306 State and Local Government
Social and Behavioral Sciences: 3 semester credit hours

Select any 3 semester credit hours from Social and Behavioral Sciences core courses (see advisor)

Component Area Option: 6 semester credit hours

- CHEM 1311 General Chemistry I
- CHEM 1312 General Chemistry II

II. Major Requirements: 66 semester credit hours

Major Preparatory Courses: 25 semester credit hours

- CHEM 1111 General Chemistry Laboratory I
- CHEM 1112 General Chemistry Laboratory II
- CHEM 1311 General Chemistry I
- CHEM 1312 General Chemistry II
- MATH 2413 Differential Calculus
- or MATH 2417 Calculus I
- MATH 2414 Integral Calculus
- or MATH 2419 Calculus II
- MATH 2415 Calculus of Several Variables
  - or MATH 2451 Multivariable Calculus with Applications
- MATH 2418 Linear Algebra
- MATH 2420 Differential Equations with Applications
- PHYS 1100 The Fun of Physics
- PHYS 2303 Contemporary Physics
- PHYS 2325 Mechanics and PHYS 2125 Physics Laboratory
  - or PHYS 2421 Honors Physics I - Mechanics and Heat and PHYS 2121 Honors Physics Laboratory
- PHYS 2326 Electromagnetism and Waves and PHYS 2126 Physics Laboratory II
  - or PHYS 2422 Honors Physics II - Electromagnetism and Waves and PHYS 2126 Physics Laboratory II

Major Core Courses: 26 semester credit hours

- PHYS 3312 Classical Mechanics
- PHYS 3327 Electronics with Laboratory
- PHYS 3330 Numerical Methods in Physics and Computational Techniques
- PHYS 3411 Theoretical Physics
PHYS 3416 Electricity and Magnetism
PHYS 4311 Thermodynamics and Statistical Mechanics
PHYS 4373 Physical Measurements Laboratory

PHYS XXXX Physics Elective

Choose one Physics Elective course from the following:

Choose one of the following courses:

PHYS 3317 Physics of the Human Body
PHYS 3380 Astronomy
PHYS 4301 Quantum Mechanics I
PHYS 4302 Quantum Mechanics II
PHYS 4335 Remote Sensing of the Earth
PHYS 4352 Concepts of Modern Physics
PHYS 4371 Solid State Physics
PHYS 4381 Space Science
PHYS 4383 Plasma Physics
PHYS 4386 Elementary Particle Physics
PHYS 4392 Extragalactic Astrophysics
PHYS 4395 Cosmology
PHYS 4386 Elementary Particle
Physics

Major Related Courses: 15 semester credit hours
15 semester credit hours of upper-division Science Electives

III. Elective Requirements: 12 semester credit hours

Electives: 6 semester credit hours

All students are required to take at least six semester credit hours of electives outside their major field of study. These must be either upper-division classes or lower-division classes that have prerequisites.

Free Electives: 6 semester credit hours

Both lower- and upper-division courses may count as electives, but the student must complete at
least 51 semester credit hours of upper-division courses to qualify for graduation.

**Physics Electives**

- PHYS 3317 Physics of the Human Body
- PHYS 3380 Astronomy
- PHYS 4301 Quantum Mechanics
- PHYS 4302 Quantum Mechanics II
- PHYS 4335 Remote Sensing of the Earth
- PHYS 4352 Concepts of Modern Physics
- PHYS 4371 Solid State Physics
- PHYS 4381 Space Science
- PHYS 4383 Plasma Science
- PHYS 4395 Cosmology
- PHYS 4386 Elementary Particle Physics
- PHYS 4V07 Senior Research Projects
- PHYS 4V10 Special Topics in Physics

**Other Courses**

- PHYS 1101 College Physics Laboratory I
- PHYS 1102 College Physics Laboratory II
- PHYS 1301 College Physics I
- PHYS 1302 College Physics II

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**Bachelor of Science in Physics**

**Degree Requirements (120 semester credit hours)**

I. **Core Curriculum Requirements: 42 semester credit hours**

- Communication: 6 semester credit hours
  - COMM 1311 Survey of Oral and Technology-based Communication
  - RHET 1302 Rhetoric

- Mathematics: 3 semester credit hours
MATH 2413 Differential Calculus\(^3\)

or MATH 2417 Calculus I\(^3\)

Life and Physical Sciences: 6 semester credit hours

- PHYS 2325 Mechanics\(^4\)
  
  PHYS 2326 Electromagnetism and Waves\(^4\)

Language, Philosophy and Culture: 3 semester credit hours

- HUMA 1301 Exploration of the Humanities

Creative Arts: 3 semester credit hours

- ARTS 1301 Exploration of the Arts

American History: 6 semester credit hours

Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours

- GOVT 2305 American National Government
  
  GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours

Select any 3 semester credit hours from Social and Behavioral Sciences core courses (see advisor)

Component Area Option: 6 semester credit hours

hours CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

II. Major Requirements: 66 semester credit hours

Major Preparatory Courses: 25 semester credit hours

- CHEM 1111 General Chemistry Laboratory I
  
  CHEM 1112 General Chemistry Laboratory II
  
  CHEM 1311 General Chemistry I\(^5\)
  
  CHEM 1312 General Chemistry II\(^5\)
  
  MATH 2413 Differential Calculus\(^3\)
  
  or MATH 2417 Calculus I\(^3\)
  
  MATH 2414 Integral Calculus\(^3\)
or MATH 2419 Calculus II

MATH 2415 Calculus of Several Variables
  or MATH 2451 Multivariable Calculus with Applications

-MATH 2418 Linear Algebra

MATH 2420 Differential Equations with Applications

PHYS 1100 The Fun of Physics

-PHYS 2303 Contemporary Physics

PHYS 2325 Mechanics and PHYS 2125 Physics Laboratory I
  or PHYS 2421 Honors Physics I - Mechanics and Heat and PHYS 2121 Honors Physics Lab
  or PHYS 2125 Physics Laboratory

PHYS 2326 Electromagnetism and Waves and PHYS 2126 Physics Laboratory II
  or PHYS 2422 Honors Physics II - Electromagnetism and Waves and PHYS 2126 Physics Laboratory II

Major Core Courses: 23 semester credit hours

-PHYS 3312 Classical Mechanics

-PHYS 3327 Electronics with Laboratory

-PHYS 3330 Numerical Methods in Physics and Computational Techniques

-PHYS 3411 Theoretical Physics

-PHYS 3416 Electricity and Magnetism

-PHYS 4311 Thermodynamics and Statistical Mechanics

-PHYS 4373 Physical Measurements Laboratory

Major Related Courses: 18 semester credit hours

-PHYS 4301 Quantum Mechanics I

-PHYS 4302 Quantum Mechanics II

-PHYS 4328 Optics

-PHYS 4352 Concepts of Modern Physics

-and 6 semester credit hours-

Choose 2 Physics Elective courses from the following: Physics Electives 6 semester credit hours

Choose 2 of the following courses:

-PHYS 3317 Physics of the Human Body

-PHYS 3380 Astronomy
III. Elective Requirements: 12 semester credit hours

Electives: 6 semester credit hours

All students are required to take at least six semester credit hours of electives outside their major field of study. These must be either upper-division classes or lower-division classes that have prerequisites.

Free Electives: 6 semester credit hours

Both lower- and upper-division courses may count as electives, but the student must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

Physics Electives

- PHYS 3317 Physics of the Human Body
- PHYS 3380 Astronomy
- PHYS 4335 Remote Sensing of the Earth
- PHYS 4395 Cosmology
- PHYS 4386 Elementary Particle Physics
- PHYS 4371 Solid State Physics
- PHYS 4381 Space Science
- PHYS 4383 Plasma Physics
- PHYS 4V11 Topics in Physics

Other Courses

- PHYS 1101 College Physics Laboratory I
UTeach Option

The UTeach option may be added either to the BA or BS degree in Physics. UTeach Dallas Option degree plans are streamlined to allow students to complete a rigorous Bachelor of Arts degree and all coursework for middle or high school teacher certification in four years. Teaching Option degrees require deep content knowledge combined with courses grounded in the latest research on math and science education. While most graduates go on to classroom teaching, UTeach alums are also prepared to enter graduate school and to work in discipline related industry.

Fast Track Baccalaureate/Master's Degrees

For students interested in pursuing graduate studies in physics, the Physics Department offers an accelerated BS/MS Fast Track that involves taking graduate courses in lieu of several advanced undergraduate courses. Acceptance into the Fast Track is based on the student's attaining a GPA (grade point average) of at least 3.200 on a minimum of 30 semester credit hours of upper-division courses that include PHYS 3411, PHYS 3312, PHYS 3330, PHYS 3416, PHYS 4301 and PHYS 4311. Eligible students may take up to 15 semester credit hours of selected graduate courses that may be used to complete the baccalaureate degree and also satisfy requirements for the master's degree. These credits will partially satisfy the MS degree requirements when the student completes the BS degree. Interested students should contact their advisor during their junior year to apply to the Fast Track program.

Bachelor of Arts in Physics with UTeach Option

Degree Requirements (123 semester credit hours)

<table>
<thead>
<tr>
<th>Core Curriculum Requirements: 42 semester credit hours</th>
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</thead>
<tbody>
<tr>
<td>Communication: 6 semester credit hours</td>
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<tr>
<td>COMM 1311 Survey of Oral and Technology-based</td>
</tr>
<tr>
<td>Communication: RHET 1302 Rhetoric</td>
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<tr>
<td>Mathematics: 3 semester credit hours</td>
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<tr>
<td>MATH 2413 Differential Calculus</td>
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<tr>
<td>or MATH 2417 Calculus</td>
</tr>
<tr>
<td>Life and Physical Sciences: 6 semester credit hours</td>
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<tr>
<td>PHYS 2325 Mechanics</td>
</tr>
<tr>
<td>PHYS 2326 Electromagnetism and Waves</td>
</tr>
</tbody>
</table>

Comment [MJ7]: Moved down to match NSM degree format per Dr. Miller, 4-1-15.
Language, Philosophy and Culture: 3 semester credit hours
   HUMA 1301 Exploration of the Humanities

Creative Arts: 3 semester credit hours
   ARTS 1301 Exploration of the Arts

American History: 6 semester credit hours
   Select any 6 semester credit hours from American History core courses (see advisor)

Government / Political Science: 6 semester credit hours
   GOVT 2305 American National Government
   GOVT 2306 State and Local Government

Social and Behavioral Sciences: 3 semester credit hours
   Select any 3 semester credit hours from Social and Behavioral Sciences core courses (see advisor)

Component Area Option: 6 semester credit hours
   CHEM 1311 General Chemistry I
   CHEM 1312 General Chemistry II

II. Major Requirements: 66-63 semester credit hours

Major Preparatory Courses: 25 semester credit hours
   CHEM 1111 General Chemistry Laboratory
   CHEM 1112 General Chemistry Laboratory II
   CHEM 1311 General Chemistry I
   CHEM 1312 General Chemistry II
   MATH 2413 Differential Calculus
      or MATH 2417 Calculus I
   MATH 2414 Integral Calculus
      or MATH 2419 Calculus II
   MATH 2415 Calculus of Several Variables
      or MATH 2451 Multivariable Calculus with Applications
   MATH 2420 Differential Equations with Applications
   PHYS 1100 The Fun of...
Physics. PHYS 2303 Contemporary Physics

PHYS 2325 Mechanics and PHYS 2125 Physics Laboratory

PHYS 2326 Electromagnetism and Waves and PHYS 2126 Physics Laboratory II

Major Core Courses: 26-28 semester credit hours

PHYS 3312 Classical Mechanics
PHYS 3327 Electronics with Laboratory
PHYS 3330 Numerical Methods in Physics and Computational Techniques. PHYS 3411 Theoretical Physics
PHYS 3416 Electricity and Magnetism
PHYS 4311 Thermodynamics and Statistical Mechanics. PHYS 4373 Physical Measurements Laboratory

Major Related Courses: 15 semester credit hours

15 semester credit hours of upper-division Science Electives
NATS 4694 and NATS 4696 UTeach Apprentice Teaching can fulfill 6 of these semester credit hours.

III. Elective Requirements: 15-18 semester credit hours

Electives: 6 semester credit hours

All students are required to take at least six semester credit hours of electives outside their major field of study. These must be either upper-division classes or lower-division classes that have prerequisites. UTeach courses can be used to fulfill these requirements.

UTeach Requirements: 9-12 semester credit hours beyond core curriculum, science electives. and advanced electives

NATS 1141 UTeach STEP 1
NATS 1143 UTeach STEP 2
NATS 3327 Perspectives on Science and Mathematics for Educators
NATS 3341 Knowing and Learning in Mathematics and Science. NATS 3343 Classroom Interactions
HIST 3328 History and Philosophy of Science and Medicine. NATS 4390 Research Methods
NATS 4341 Project-Based Instruction

NATS 4694 UTeach Apprentice Teaching, 8-12 Science and Mathematics

or NATS 4696 UTeach Apprentice Teaching, 4-8 Science and Mathematics

NATS 4141 UTeach Apprentice Teaching Seminar

Both lower- and upper-division courses may count as electives, but the student must complete at least 61 semester credit hours of upper-division courses to qualify for graduation.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

Incoming freshmen must complete and pass UNIV 1010 Freshman Seminar and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 202.

2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. One semester credit hour of Calculus is counted as Major Preparatory credit; three semester credit hours are counted in Core Curriculum. Students may choose either calculus sequence MATH 2413, MATH 2414, and MATH 2415 or MATH 2417, MATH 2419 and MATH 2451.


6. Indicates a prerequisite class to be completed before enrolling for upper-division classes.
School of Natural Sciences and Mathematics

UTeach Options

Those interested in obtaining both a baccalaureate degree and a Teacher Certification in the state of Texas should consult the Teacher Development Center or UTeach Dallas office for specific requirements as soon as possible after formal admission to the university. See the Teacher Education Certification Programs section of the catalog for additional information.

The UTeach option may be added to either the BA or BS degree in specific disciplines within the School of Natural Sciences and Mathematics. UTeach Dallas Option degree plans are streamlined to allow students to complete both a rigorous Bachelor of Science or Bachelor of Arts degree and all coursework for middle or high school teacher certification in four years. However, certain options may exceed minimum requirements for the degree.

Teaching Option degrees require deep content knowledge combined with courses grounded in the latest research on math and science education. While most graduates go on to classroom teaching, UTeach alums are also prepared to enter graduate school and to work in discipline related industry.

All UT Teach students will follow the degree requirements set forth in the primary degree and take the following UTeach courses to meet the teacher certification criteria.

The UTeach option must also include sufficient upper-division courses to total 51 upper-division semester credit hours. Please consult the UTeach department for additional information and advising; see http://www.utdallas.edu/uteach/

UTeach Requirements: 24 semester credit hours

NATS 1141 UTeach STEP 1
NATS 1143 UTeach STEP 2
NATS 3341 Knowing and Learning in Mathematics and Science
NATS 3343 Classroom Interactions
NATS 3327 Perspectives on Science and Mathematics for Educators
NATS 4390 Research Methods
NATS 4341 Project-Based Instruction
NATS 4694 UTeach Apprentice Teaching, 7-12 Science and Mathematics
Bachelor of Arts in Biology with UTeach Option

Degree Requirements (121-123 semester credit hours)

Students will follow the degree requirements set forth in the Bachelor of Arts or Bachelor of Science in Biology for an additional 1-3 semester credit hours.

Bachelor of Arts in Chemistry with UTeach Option

Degree Requirements (123-124 semester credit hours)

Students will follow the degree requirements set forth in the Bachelor of Arts in Chemistry for an additional 3-4 semester credit hours.

Bachelor of Science in Geosciences with UTeach Option

Degree Requirements (124 semester credit hours)

Students will follow the degree requirements set forth in the Bachelor of Science in Geosciences for an additional 4 semester credit hours.

Bachelor of Science in Mathematics with UTeach Option

Degree Requirements (120 semester credit hours)

Students will follow the degree requirements set forth in the Bachelor of Science in Mathematics for the same degree total hours. However, if they elect to take the statistics specialization, that it may require an additional ??? semester credit hours.
Bachelor of Arts in Physics with UTeach Option

Degree Requirements (124 semester credit hours)

Students will follow the degree requirements set forth in the Bachelor of Arts in Physics for an additional 4 semester credit hours.
School of Natural Sciences and Mathematics

Minors

Students must take a minimum of 18 semester credit hours for the minor, 12 of which must be upper-division semester credit hours. Students who take a minor will be expected to meet the normal prerequisites in courses making up the minor, and should maintain a minimum GPA of 2.000 on a 4.00 scale (C average). Semester credit hours may not be used to satisfy both the major and minor requirements; however, free elective semester credit hours or major preparatory classes may be used to satisfy the minor.

For all minors in the School of Natural Sciences and Mathematics students must complete all prerequisite sequences for required minor courses.

The undergraduate minors in the School of Natural Sciences and Mathematics follow:

- Actuarial Science
- Biology
- Biomolecular Structure
- Chemistry
- Geosciences
- Mathematics
- Microbiology
- Molecular and Cell Biology
- Neurobiology
- Physics
- Statistics

Minor in Actuarial Science: 24 semester credit hours

The Minor in Actuarial Science program at UT Dallas is administered through the Department of Mathematical Sciences. It is ideal for students who are interested in broadening their experience and knowledge base in the study and analysis of principles of Actuarial Science. The minor core courses prepare students for a number of actuarial exams required for a designation of Associate of the Society of Actuaries, Casualty Actuarial Society, or Canadian Institute of Actuaries. Specifically, the minor provides students with an intense background in principles of actuarial models. All of the courses in the minor serve as starting points for learning the concepts covered on the preliminary actuarial exams (P/1, FM/2, MLC/3L).
Students not majoring in Actuarial Science may obtain a minor in Actuarial Science by satisfying 24 semester credit hours (9 semester credit hours of minor core courses and 15 semester credit hours of minor preparatory courses).

Minor Preparatory Courses (15 semester credit hours)\(^1\)

- **MATH 2417** Calculus I (Differential Calculus)
- **MATH 2419** Calculus II (Integral Calculus)
- **MATH 2451** Multivariable Calculus with Applications
- **MIS 3300** Introduction to Management Information Systems
- **ITSS 3300** Information Technology for Business

Minor Core Courses (9 semester credit hours)\(^2\)

- **STAT 4351** Probability
- **ACTS 4301** Principles of Actuarial Models: Life Contingencies I
- **ACTS 4308** Actuarial Financial Mathematics

1. Students whose major does not require MATH 2417 and MATH 2419 as part of their Mathematics and Component Area Option Core Curriculum requirements, should take this sequence as their core curriculum courses to ensure efficiency toward the minor.

2. These classes prepare for the three preliminary actuarial examinations jointly administered by the Society of Actuaries (S\(\text{\textregistered}\)A), Casualty Actuarial Society (CAS), and the Canadian Institute of Actuaries (CIA).

### Minor in Biology: 18 semester credit hours

**Required: 12 semester credit hours**

- **BIOL 2311** Introduction to Modern Biology I
- **BIOL 2111** Introduction to Modern Biology Workshop I
- **BIOL 3301** Classical and Molecular Genetics
- **BIOL 3101** Classical and Molecular Genetics Workshop
- **BIOL 3361** Biochemistry I
- **BIOL 3161** Biochemistry Workshop I

Also:

Two \(\Box\) approved electives for majors
Minor in Biomolecular Structure: 18 semester credit hours

Required: 13 semester credit hours

BIOL 3336 Protein and Nucleic Acid Structure
BIOL 4461 Biophysical Chemistry, unless taken to fulfill the Molecular Biology major requirements
BIOL 4261 Biomolecular Modeling
CHEM 2323 Introductory Organic Chemistry I
CHEM 2325 Introductory Organic Chemistry II

Also:
Two approved CHEM, CS, EE, MATH, or PHYS electives

Comment [DDC2]: With the removal of BIOL4261 the hours now equal 13.

Minor in Chemistry: 18 semester credit hours

Required: 11 semester credit hours

BIOL 3161 Biochemistry Workshop I
BIOL 3361 or CHEM 3361 Biochemistry I
CHEM 3321 Physical Chemistry I
CHEM 3472 Instrumental Analysis

Also:
A minimum of 7 additional semester credit hours in chemistry courses

Comment [DDC3]: BIOL4261 was removed from the 2015 catalog.

Minor in Geosciences: 20 semester credit hours

Required lower-division courses: 8 semester credit hours

GEOS 1103 Physical Geology Laboratory
GEOS 1104 History of Earth and Life Laboratory
GEOS 1303 Physical Geology
GEOS 1304 History of Earth and Life

Deleted: One to t
Upper-division courses: 12 semester credit hours
To be selected in consultation with Geosciences Undergraduate advisor

3. A prerequisite course to be completed before enrolling in upper-division GEOS core courses (GEOS 3300, GEOS 3421, GEOS 3434, GEOS 3464, GEOS 3470, GEOS 3400, GEOS 4320, GEOS 4322, and GEOS 4430).

Minor in Mathematics: 18 semester credit hours

The minor in Mathematics requires 18 semester credit hours math or statistics course requirements. Of these 18, 12 semester credit hours will be selected from a specific set of courses.

12 semester credit hours of courses must be chosen from the following:

- **MATH 3310** Theoretical Concepts of Calculus
- **MATH 4334** Numerical Analysis
- **And select** two more upper-division mathematics courses that satisfy degree requirements by students in Mathematical Sciences.

The remaining 6 semester credit hours can be satisfied by choosing either MATH or STAT courses with advisor approval.

Minor in Microbiology: 18 semester credit hours

Required: 15 semester credit hours

- **BIOL 3V20** General Microbiology with Lab
- **BIOL 3335** Microbial Physiology
- **BIOL 4350** Medical Microbiology
- **BIOL 4316** Parasites and Symbionts
- **BIOL 4345** Immunobiology
- **CHEM 2323** Introductory Organic Chemistry I

Also:

- One approved microbiology elective

4. Two semester credit hours of **BIOL 3V20** may be used to satisfy the upper-division elective requirement for Biology and Molecular Biology majors.

5. May be substituted with CHEM 2325 Introductory Chemistry II if used to satisfy the Biochemistry II core requirement for Biology and Molecular Biology majors.
Minor in Molecular and Cell Biology: 18 semester credit hours

Required: 6 semester credit hours

CHEM 2323 Introductory Organic Chemistry I
CHEM 2325 Introductory Organic Chemistry II

Also:

Four approved molecular and cell biology electives

Minor in Neurobiology: 18 semester credit hours

Required: 12 semester credit hours

Biol 4370 Developmental Neurobiology
Biol 3371 Biology of the Brain
CHEM 2323 Introductory Organic Chemistry I
CHEM 2325 Introductory Organic Chemistry II
NSC 4353 Neuroscience Laboratory Methods
NSC 4354 Integrative Neuroscience
or NSC 4352 Cellular Neuroscience

Also:

Two B IOL approved electives for majors

Minor in Physics: 20 semester credit hours

Required: 12 semester credit hours

PHYS 2325 Mechanics
PHYS 2125 Physics Laboratory I
PHYS 2326 Electromagnetism and Waves
PHYS 2126 Physics Laboratory II
PHYS 3411 Theoretical Physics

Also:

Three other upper-division physics courses

Comment [DDC6]: With the removal of BIOL4370 & BIOL 3371 semester credit hours now equal 12. It could be 15 if NSC4352 replaces 3371 as the required course.

Comment [DDC7]: Added per Dr. Miller email 3.30.15

Comment [DDC8]: BIOL4370 dropped from 2015 catalog.

Comment [DDC9]: BIOL3371 dropped from 2015 catalog.
Minor in Statistics: 18 semester credit hours

The minor in Statistics requires 18 semester credit hours math or statistics course requirements. Of these 18, 12 semester credit hours will be selected from a specific set of courses.

12 semester credit hours of courses must be chosen from the following:

- STAT 4351 Probability
- STAT 4352 Mathematical Statistics

And select two more upper-division mathematics courses that satisfy degree requirements by students in Mathematical Sciences.

The remaining 6 semester credit hours can be satisfied by choosing either MATH or STAT courses with advisor approval.
Honors College
2015-16 Undergraduate Catalog

Program
**Degree Programs**

**Honors Programs**

**Collegium V**

Collegium V is a four-year, interdisciplinary honors program available to students in all majors. This selective academic program encourages intellectually creative, inquisitive, and highly motivated students to extend their educational experience beyond the scope of the traditional undergraduate curriculum. Students benefit from the small classes, innovative instruction, world-class faculty, and bright, inquisitive colleagues. Collegium V coursework overlaps with standard degree requirements and is designed to be completed on schedule.

Membership in Collegium V is limited. Interested students must apply directly to the program at:

Collegium V  
The University of Texas at Dallas  
800 West Campbell -- oad -- GC 10  
richardson T -- 75080-3021  
972-883-4297  
collegiumv@utdallas.edu

**Honors in the Major**

Each school offers qualified students the opportunity to participate in an honors program within the school's discipline. Each program may provide two levels of recognition, Honors and Distinction. All students must have completed a minimum of 30 graded semester credit hours to qualify for major honors. The requirements for major honor's recognition vary across schools. Students should review the descriptions within the school section of the catalog.
Honors College

The Honors College at the University of Texas at Dallas, established in 2012, houses eight programs dedicated to promoting excellence in undergraduate education.

Three programs offer a four-year cohort experience to participating students, with admission generally restricted to incoming college freshmen. The Collegium V Honors Program provides seminar instruction, personal mentoring and an enhanced academic environment. The National Merit Scholars Program provides personal mentoring and an intellectual framework in addition to a generous financial scholarship for National Merit Scholars attending UT Dallas. National Merit Scholars at UT Dallas are eligible for membership in the Collegium V Honors Program. The UT Dallas Terry Scholars Program provides ambitious student scholars the intellectual, social, cultural and financial support necessary for their preparation as the future leaders of Texas and our nation. The Honors College also works closely with the McDermott Scholars Program.

The other five programs in the Honors College enrich the academic experience of matriculated UT Dallas students. The Office of Distinguished Scholarships provides information, guidance, and mentoring to students applying for nationally competitive scholarship and fellowship programs. The Archer Program combines Washington D.C. internship experience with classroom instruction for an intensive semester of political and policy education. The UT Dallas Chapter of Phi Kappa Phi is the local chapter of the nation’s oldest, largest, and most selective collegiate honor society for all academic disciplines. Undergraduate and graduate students are inducted to Phi Kappa Phi each year. The Prodigy Scholars Program offers bright high school students the opportunity to concurrently enroll in mathematics courses beyond calculus and linear algebra.

The Honors College is located in the Cecil and Ida Green Center at the heart of the UT Dallas campus. We invite visitors to stop by our lobby and review the senior research posters from last year’s graduating class.

Applying to the Honors College at UT Dallas

Students interested in participating in the Honors College at UT Dallas should apply directly to one or more of the constituent programs.
Honors College Cohort Programs

The Collegium V Honors Program

The Collegium V Honors Program provides a four-year honors experience that encourages intellectually creative, inquisitive, and highly motivated students to extend their educational experience beyond the scope of the traditional undergraduate curriculum. Small classes, innovative instruction, world class faculty, bright and inquisitive colleagues, and an array of extracurricular events offer Collegium V members special opportunities for professional and personal growth at the university. For more information regarding program eligibility and application guidelines, please see the Collegium V Honors Program website.

Program Requirements

Successful completion of the Collegium V Honors Program is noted on the graduate’s diploma and transcript. To earn Collegium V Honors, students are required to graduate with a 3.5 GPA and earn 24 credit hours in honors work by graduation. A minimum of 12 hours of Collegium V credit must be earned from Collegium V classes. Up to 12 hours may be earned through approved honors level work, including undergraduate honors classes, graduate classes, research or internship projects taken as independent studies, university accredited travel abroad class work, and "contract" courses. Students must successfully complete and present an approved honors thesis or honors project.

The Terry Scholars Program

The Terry Scholars Program at UT Dallas provides ambitious student scholars the intellectual, social, cultural and financial support necessary for their preparation as the future leaders of Texas and our nation. It was established in 2006 when Houston-based Terry Foundation expanded its program to include UT Dallas. The Terry Foundation is one of the largest providers of private scholarships in the state of Texas having awarded scholarship funding to over 3,700 scholars state-wide since 1986. Their goal is to aid students who show promise of future leadership distinction and to provide ample funding to students who might not otherwise be able to attend college. Students interested in applying to the Terry Scholars Program must apply directly through the university. For more information, please visit the Terry Scholars Program website.

The National Merit Scholars Program

The National Merit Scholars Program at UT Dallas offers students a generous financial package and admission to the Collegium V Honors Program. In addition, the National Merit Scholars Program will host social, cultural and academic events to facilitate interaction between National Merit Scholars at UT Dallas. For more information regarding program eligibility and application guidelines, please see the National Merit Scholars Program website.
Honors College Advanced Programs

The Office of Distinguished Scholarships

The Office of Distinguished Scholarships supports students’ efforts to realize their highest professional and intellectual future aspirations through distinguished national scholarships. National public policy and generous philanthropic giving have provided myriad scholarship opportunities for undergraduate students. Generally, a distinguished national scholarship has a national or international applicant pool of students in the top fifth of their academic class and provides an award or recognition to less than a third of applicants. For more information regarding featured scholarship eligibility and deadlines, please see the website for the Office of Distinguished Scholarships at UT Dallas.

The Archer Program

The mission of the Archer Program is to educate the next generation of leaders from Texas for local, state, federal, and international service. Students in the program attend classes in Washington D.C. while pursuing a full-time internship. For more information regarding program eligibility and application guidelines, please see the Archer Center website.

Texas Legislative Internship Program

The Texas Legislative Internship Program is an undergraduate internship program administered by the Honors College at the University of Texas at Dallas. Students participating in this internship program will work in a state legislative or senatorial office for a full semester. Designed for students from a variety of disciplines, the TLIP offers an opportunity to participate full-time in the state legislative process. For more information regarding program eligibility and application guidelines, please see the website for the Texas Legislative Internship Program.

Phi Kappa Phi

Founded in 1897 at the University of Maine, Phi Kappa Phi is the nation’s oldest, largest, and most selective collegiate honor society for all academic disciplines. Its chapters are on more than 300 campuses in the United States, Puerto Rico, and the Philippines. Each year, approximately 30,000 members are initiated. The UT Dallas chapter of Phi Kappa Phi inducts new members each year. For more information about the local chapter of the honor society, please visit the UT Dallas Phi Kappa Phi website.

Faculty

Professors: Edward Harpham, Ravi Prakash

Clinical Professor: Douglas Dow

Senior Lecturer: Eva LaDow
Undergraduate Certificate Programs
2015-16 Undergraduate Catalog
UT Dallas offers rigorous university-based teacher certification curricula and enjoys an outstanding reputation for producing excellent teachers.

At UT Dallas, coursework and field experiences leading to teacher certification may be accomplished through either the Teacher Development Center (TDC) program in the School of Interdisciplinary Studies (972-883-2730) or through UTeach Dallas program in the School of Natural Sciences and Mathematics (NS&M) (972-883-2496). In coordination with a student’s academic major in other UT Dallas academic programs, students develop the content expertise required in a teaching field such as Literary Studies, History, Mathematics, Science, etc. Both programs utilize the total resources of the university rather than relying on a school of education. Students interested in pursuing teacher certification through UT Dallas should review program requirements for the TDC and UTeach Dallas. Although each program provides the same curricular content as required by the State Board for Educator Certification (SBEC) and the Texas Higher Education Coordinating Board (THECB), the programs are uniquely independent, not interchangeable, and differ in course design and some requirements. Both SBEC and THECB have approved the content and procedures for both programs’ curricula.

UT Dallas undergraduate and graduate students may earn their teaching certificates concurrently with their degree studies. Additionally, graduate students may choose to pursue teacher certification without formal degree studies as a non-degree seeking graduate student in the School of Interdisciplinary Studies or in the School of Natural Sciences and Mathematics.

After developing a degree plan with their academic major advisor, undergraduate students may apply to the TDC for admission to the teacher certification program. A certification plan will be developed with the student and the TDC advisor. Students enrolling in UTeach Dallas should meet with the UTeach Dallas advisor who also serves as an NS&M academic advisor. Post baccalaureate students seeking their teacher certification may be advised in the TDC or UTeach Dallas.

Certification Subject Areas
There are two possible tracks to teacher certification at UTD. The TDC offers and supports preparation for teacher certification in numerous teaching fields and grade levels. UTeach Dallas offers preparation and support in secondary mathematics and science certifications only.

Secondary (Grades 7-12) Certification
Undergraduate students in either certification track must have an academic major and a minimum of 24 semester credit hours of appropriate coursework in their chosen teaching field as well as a reading course (for TDC) in secondary content, and 18 semester credit hours of professional education including clinical teaching.
Students may be enrolled in the School of Interdisciplinary Studies, the School of Natural Sciences and Mathematics, or in the school of their academic degree major. All teacher candidates must pass state required TExES examinations in Pedagogy and Professional Responsibilities as well as the content exam for their chosen teaching field prior to clinical teaching. Certification for secondary education is offered in the following content areas/teaching fields:

- 7-12 English Language Arts and Reading (ELAR)\(^1\)
- 7-12 History\(^1\)
- 7-12 Social Studies\(^1\)
- 8-12 Computer Science\(^1\)
- 7-12 Mathematics\(^2\)
- 7-12 Chemistry\(^2\)
- 7-12 Life Sciences\(^2\)
- 6-12 Physical Sciences\(^2\)
- 7-12 Science\(^2\)

**Secondary (Grades 4-8) Certification**

Undergraduate students in either certification track must have an academic major and a minimum of 24 semester credit hours of appropriate coursework in their chosen teaching field as well as 18 semester credit hours of professional education including clinical teaching. Additionally, students must complete state-required reading content for either certification track (TDC or UTeach Dallas). Students who wish to seek teacher certification in grades 4-8 may choose “4-8 Generalist” or select a specialized teaching field. Students may be enrolled in the School of Interdisciplinary Studies, the School of Natural Sciences and Mathematics, or in the school of their academic degree major. All teacher candidates must pass state required TExES examinations in Pedagogy and Professional Responsibilities as well as the content exam for their chosen teaching field prior to clinical teaching. Teacher certification for grades 4-8 is offered in the following content areas/teaching fields:

- 4-8 Science\(^2\)
- 4-8 Mathematics\(^2\)
- 4-8 Social Studies\(^1\)
- 4-8 English Language Arts and Reading (ELAR)\(^1\)
- 4-8 Generalist\(^1\) – because this certificate qualifies a candidate to teach multiple content areas, additional academic coursework is required to prepare candidates for the rigorous broad-based TExES “Generalist 4-8” examination.

**Early Childhood – Grade 6 Generalist Certification**

The “Generalist EC-6” teacher certificate may only be earned through the TDC certification track. It is the only certification available to students interested in these grade levels. The TEExES content examination for this certification tests for broad-based content mastery. Therefore, students are counseled to work with academic advisors in the School of Interdisciplinary Studies or the School of Brain and Behavioral Sciences if they seek “Generalist EC-6” certification. Because most school districts now seek or require EC-6 teachers to have ESL or bilingual supplemental certification, the TDC highly recommends students seeking this certification to prepare for and take the ESL Supplemental TEExES examination when certified by TEA.

**All Teaching Fields**

All undergraduate students in either certification track must meet the 42-semester credit hour core curriculum for The University of Texas at Dallas.
All students seeking fulfillment of certification requirements through the TDC certification track are required to pass 18 semester credit hours of appropriate professional education courses, including six semester credit hours of full-day clinical teaching. The state of Texas requires specific reading content for each certification level. Candidates must also demonstrate technology literacy, online education literacy and effective public speaking.

All candidates seeking fulfillment of certification requirements through the UTeach Dallas certification track are required to pass 18 semester credit hours of clinical teaching. Candidates must also complete Perspectives in Math and Science or an approved equivalent as well as demonstrate technology literacy, online educational literacy and effective public speaking.

Admissions

Upon admission to the university, undergraduate students should meet with an academic advisor in their major field to develop their degree plan indicating to the academic advisor they plan to seek teacher certification. NS&M and STEM (Science, Technology, Engineering and Mathematics) undergraduate students seeking teacher certification preparation through UTeach Dallas should meet with the UTeach Dallas academic advisor to prepare their degree plan. Both the TDC and UTeach Dallas require all students to have a 2.750 GPA as well as specified scores on the THEA, SAT, ACT or GRE as part of the admission criteria.

Post-Baccalaureate Students

Students with a baccalaureate degree may seek teacher certification. Post-baccalaureate students should consult with a TDC or UTeach Dallas advisor to develop a certification plan after their admission to the university through the Office of Admission and Enrollment Services. Prior to admission to a post-baccalaureate certification program, students must meet the program standards for the THEA, SAT, ACT or GRE.

Post-baccalaureate students must meet the 24 semester credit hour requirements for their chosen content area and required professional education coursework. A certification plan based on an analysis of the candidate’s transcript will be developed. If additional content coursework is necessary, the candidate may take the required courses in their content area at the graduate or undergraduate level. Candidates must demonstrate technology literacy, online education literacy and effective public speaking. TDC students must complete a total of 12 semester credit hours of English language, composition, and/or literature. All candidates must fulfill requirements for clinical teaching or supervised internship.

Post-Baccalaureate Students with Degrees from Another Country

Students with a baccalaureate and/or graduate degree from another country must have that degree(s) evaluated by a foreign credential evaluator service. Neither UT Dallas nor the TDC nor UTeach Dallas accredit or formally approve credential evaluation services. Students may go to http://tea.texas.gov/Texas_Educators/Certification/Out-of-State_Certification/Foreign_Credential_Evaluation_Services/ to find a list of reviewed foreign credential evaluator providers who completed an application affirming they follow the standards of recognized national organizations of foreign credential evaluators.

Guidelines for Admission to The University of Texas at Dallas Teacher Certification Program
Guidelines are in compliance with Chapter 227 of the Texas Administrative Code and the HEA Title II accountability requirements.

Students seeking Texas teaching credentials at UT Dallas must meet the following requirements:

- **Provisional Admission** – entitles a prospective student who has applied for admission to UT Dallas to be advised for a certification plan and/or to take the initial courses related to certification.
  - GPA of 2.750 over-all or on last 60 semester credit hours of coursework.
  - Undergraduate students must have 60 semester credit hours of undergraduate coursework. This should include 12 semester credit hours at UT Dallas with no grade below a "C."
  - Post-Baccalaureate students must have an undergraduate or graduate degree from an accredited university/institution of higher education. If a student holds a degree from an accredited college of education and has never enrolled in an Educator Preparation Program (EPP), the student may qualify to register for a Pre-Admission Content Test (PACT). Detailed PACT information is available at the ETS website www.texes.ets.org. Taking PACT does not ensure admittance into an Educator Preparation Program. Programs may have additional admission requirements. Post-Baccalaureate students are required to pass THEA with the following minimum scores prior to admission to the University for non-degree seeking teacher certification.
    - 260 in Reading
    - 240 in Math
    - 240 in Writing.
    - THEA scores can be no more than 10 years old

**Exemption from THEA:** Students are exempt from THEA if they meet the qualifying standards for GRE, ACT, or SAT:

- **GRE:** A minimum Verbal score of 450 and a minimum Quantitative score of 450 for a combined Verbal/Quantitative minimum score of 900 and a writing score of 3 or higher. Revised 2012 GRE Scoring: Minimum Verbal score of 135 and a minimum Quantitative score of 135 for a combined Verbal/Quantitative minimum score of 270 and a writing score of 3 or higher. (GRE scores can be no more than five years old.)

- **ACT:** A composite score of 26 with English and Mathematics sub scores of at least 22. (ACT scores can be no more than five years old.)

- **SAT:** A total minimum score of 1650 with 550 minimum scores in each of the mathematics, critical reading, and writing sections of the test. (SAT scores can be no more than five years old.)

Appropriate documentation is required to qualify for the exemptions from THEA. The Official THEA Test Study Guide may be purchased in the UT Dallas Bookstore. THEA registration information is available in the Teacher Development Center, Hoblitzelle Hall (HH2.9), or in the Office of Student Success and Assessment located in McDermott Library, Room 1.302.

Undergraduate students enrolling in the TDC program should meet with a faculty advisor in their academic major to develop a degree plan no later than the end of the second regular semester following the semester in which the student earned 45 or more semester credit hours, per the Texas Education Code, Section 51.9685, indicating to the
advisor their interest in pursuing teacher certification. Students can then make an appointment for certification plan advising with the TDC whenever they are ready to take upper division courses. Undergraduate students enrolling in UTeach Dallas or all students (including freshmen) interested in exploring or pursuing secondary mathematics or science teaching as a career are encouraged to enroll in UTeach Dallas certification coursework as early as their first semester at UT Dallas due to early field and teaching experiences as well as compacting degree plans with certification preparation. Students should make an appointment for certification plan advising with the UTeach Dallas advisor, who also serves as the academic advisor for all NS&M majors enrolled in UTeach Dallas.

Post-Baccalaureate students interested in teacher certification at UT Dallas are advised in the TDC or UTeach Dallas.

Official Admission

Teacher Development Center Program:

- Meet all requirements for “Provisional Admission.”
- Complete an application for admission to the Teacher Development Program.
- Complete American Public School (ED 3314) and Educational Psychology (PSY 3339/ED 3339).
- Teacher certification applicants must have exhibited professional maturity, acceptable class attendance, and agree to adhere to the Code of Ethics and Standard Practices for Texas Educators to be officially admitted to teacher certification.

Students must adhere to the Code of Ethics and Standard Practices for Texas Educators of the Texas Administrative Code, Chapter 247, Rule 247.2, and to the Fitness to Teach policy (to be provided at the first advising appointment in the TDC).

UTeach Dallas Program:

- Meet all requirements for “Provisional Admission.”
- Complete an application for admission to the UTeach Dallas Program.
- Complete STEP 1 (NATS 1141), STEP 2 (NATS 1143), and Knowing and Learning (NATS 3341); be at least currently enrolled in Classroom Interactions (NATS 3343); and have a 2.750 or higher GPA in university coursework.
- Receive approval of the preliminary portfolio.

Students must adhere to the Code of Ethics and Standard Practices for Texas Educators of the Texas Administrative Code, Chapter 247, Rule 247.2, and to the Fitness to Teach policy (to be provided at the first advising appointment in the TDC).

Texas Examinations of Educator Standards (TExES)

All candidates for initial teacher certification must pass two TExES certification examinations:

1. Pedagogy and Professional Responsibilities, EC-12.
2. Content specialization test for the appropriate grade level.
Students must be officially admitted to either teacher certification track (TDC or UTeach Dallas) to take the TExES certification examinations. For information on TExES registration and eligibility, please review the Teacher Development Center TDC website – www.utdallas.edu/teach or contact the TDC – review the UTeach Dallas website at www.utdallas.edu/uteach or contact UTeach Dallas.

TExES examination preparation manuals and Tests-at-a-Glance may be downloaded from the ETS website, www.ets.org. Students should access this information before or during the first semester of enrollment in the TDC or the UTeach Dallas teacher certification tracks. Students are encouraged to prepare early for the content area/teaching field TExES examination as well as take the PPR TExES exam.

- TDC students are prepared to take the PPR exam during or upon completion of Classroom Management (ED 3342 or ED 4361).
- UTeach Dallas students are prepared to take the PPR exam at the beginning of Project-Based Instruction (NATS 4341).
- Practice exams for all TExES examinations are available through the Teacher Development Center TDC at no charge.
- TExES preparation workshops are available twice each fall and spring semester at no charge to students.

Requirements for Clinical Teaching
Applications for clinical teaching will be accepted at one of several information sessions held early in each long semester (before October 15 in the fall and before March 15 in the spring). For further information, contact the Teacher Development Center TDC or UTeach Dallas. All candidates in either teacher certification track will be reviewed by the appropriate program professionals to analyze eligibility for clinical teaching.

Teacher Development Center Program:
All candidates must have exhibited professional maturity, acceptable class attendance, and meet the following requirements:
- Adhere to the Code of Ethics and Standard Practices for Texas Educators.
- Adhere to Fitness to Teach Policy.
- Be officially admitted to the TDC program. Transfer students must have completed a minimum of 9 semester credit hours of professional development coursework at UT Dallas in order to register for the clinical teaching capstone course.
- Pass both required TExES exams.
- Complete all required professional development courses with a 2.75 or higher GPA.
- Complete all required course work in the content area/teaching field with a 2.75 or higher GPA.
- Have no grade lower than a “B” in Classroom Management, C&I or Methods courses.
- Have no grade lower than “C” in other required certification courses.
- Request a clinical teaching assignment where no family member works or attends.
- Clear district criminal background check.
- Register for clinical teaching (6 semester credit hours). A clinical teaching fee is included in the total registration charges.
- Pay tuition expenses before beginning official clinical teaching assignment.

Supervised Post-Baccalaureate Internships are available only to certification candidates who have a degree from an accredited college or university, an institution of higher education, accredited school or district in an authorized area, a 3.00 or higher GPA in required courses, and who meet all other requirements for clinical teaching.
UTeach Dallas Program:
- Adhere to the Code of Ethics and Standard Practices for Texas Educators as listed in Appendix III in the student teacher handbook.
- Meet all requirements for official admission to the UTeach Dallas program.
- Pass both required TExES exams.
- Complete all required coursework in teaching field with a 2.750 or higher minimum GPA.
- Have no grade lower than a “B” in STEP 1 (NATS 1141) and STEP 2 (NATS 1143) for certification through UTeach Dallas as well as a 3.000 or higher GPA in UTeach Dallas coursework.
- Have no grade lower than “C” in other required certification courses.
- Request a clinical teaching assignment where no family member works or attends.
- Clear district criminal background check.
- Register for clinical teaching (6 semester credit hours). A clinical teaching fee will be included in the total registration charges.
- Enroll concurrently in the NATS 4141 Apprentice Teaching Seminar course (1 semester credit hour).
- Pay tuition expenses before beginning official clinical teaching assignment.

UT Dallas Requirements for Teacher Certification

Teacher Development Center:
- A 2.750 or higher GPA or higher in all professional education coursework.
- A 2.750 or higher GPA or higher in content area/teaching filed coursework.
- Earn a grade of “A” or “B” in:
  - Classroom Management (ED 3342 or ED 4361);
  - Curriculum and Instruction (ED 3370, ED 3371, ED 3380, or ED 3382);
  - Methods courses (ED 4343, ED 4344, or ED 4345).
- Earn no grade lower than “C” in all other required certification courses.
- Successfully complete professional education coursework taken at UT Dallas.
- Successfully complete Educational Technology (ED 4372).
- Provide appropriate documentation of effective public speaking.
- Complete 12 semester credit hours of English, language, composition, and/or literature, with no grade lower than a “C.”
- Successfully complete 40 clock hours of early field experience.
- Successfully complete a semester 15-week clinical teaching experience course (ED 4693 or ED 4694) with a grade of “A” or “B” in clinical teaching.

UTeach Dallas:
- A 2.750 or higher GPA or higher in content area/teaching field.
- Earn a grade of “A” or “B” in STEP 1 (NATS 1141) and STEP 2 (NATS 1143) and overall GPA of 3.000 or higher in UTeach Dallas courses with no grade lower than a “C” in Knowing and Learning (NATS 3341), Classroom Interactions (NATS 3343), or Project-Based Instruction (NATS 4341).
- Earn no grade lower than “C” in other required certification courses.
- Successfully complete professional education coursework taken at UT Dallas.
- Provide appropriate documentation of educational technology competency.
- Provide appropriate documentation of effective public speaking.
- Successfully complete 40 clock hours of early field experience.
• Successfully complete a 14-week/semester clinical teaching experience with a grade of “A” or “B” in clinical teaching.

Application for Certification

Students who successfully fulfill all requirements for Texas teacher certification (GPA, coursework, Basics Skills exam, and TExES examinations, etc.) may apply for certification on the Texas Education Agency (TEA) website (www.tea.state.tx.us). The Certification Officer will access student online applications and, upon verification of all certification requirements, will make recommendations for certification online. Students will immediately receive an email from the certifying agency verifying recommendation. When TEA posts the certificate online, the teacher candidate can print a copy of the certificate on paper suitable for framing if they wish. The online certificate is the official credential.

Contact Information

UT Dallas Teacher Development Center
School of Interdisciplinary Studies
Hoblitzelle Hall 2.900
Telephone: 972-883-2730
Fax: 972-883-4330
www.utdallas.edu/teach

UTeach Dallas
Department of Science/Mathematics Education
School of Natural Sciences and Mathematics
Founders North 3.218
Telephone: 972-883-6485
Fax: 972-883-6797
www.utdallas.edu/uteach

1. Available only through the Teacher Development Center (TDC).
2. Available through the TDC or UTeach Dallas teacher certification tracks

Updated:

December 1, 2014 – Visitor: 316
March 1, 2015
School of Natural Sciences and Mathematics

Certificate in Biomedical Sciences

The post-baccalaureate Certificate in Biomedical Sciences (CBioMed) is offered through the School of Natural Sciences and Mathematics (NSM) and administered through the Health Professions Advising Center (HPAC). A rigorous curriculum allows students to further develop their scientific knowledge in preparation for application to schools of medicine, dentistry, or podiatry. Program requirements also include clinical, community service and/or research hours, independent from course credit and initiated by the student. Certificate students access HPAC services receiving assistance with the application process.

Application for the program is through the ApplyTexas online application at www.utdallas.edu/admissions. Applicants apply as Transfer, Undergraduate students in the School of Natural Sciences and Mathematics, and select the Undergraduate Certificate in Biomedical Sciences. A supplemental application, as well as the booklet Information and Program Guidelines, can be found on the HPAC webpage. Please contact the HPAC office for deadlines in submitting the supplemental application.

Admission Requirements

Prospective students interested in enrolling in the Certificate in Biomedical Sciences program will be considered for admission based on the following standards:

- met University admission requirements established for transfer undergraduate students;
- earned a bachelor's degree from a U.S. college or university;
- exhibited clear motivation for a career in medicine, dentistry, or podiatry (as evidenced by previous coursework, clinical exposure and/or a realistic plan for preparation);
- completed the CBioMed program supplemental application; and,
- earned an undergraduate grade point average (GPA) of at least 2.750.

Note: Competitive applicants for the CBioMed program should have completed, or be in the process of completing, an introductory sequence - for science majors - of chemistry, biology and physics.

Program Requirements

The certificate program is designed for students who are preparing for entrance into a medical, dental or podiatry school.

Requirements for completion of the Certificate in Biomedical Sciences program include:

- A minimum of 24 post-baccalaureate undergraduate semester credit hours of approved courses at UT Dallas.
• Of the 24 semester credit hours completed toward the certificate, a minimum of 9 semester credit hours must be HPAC advisor approved upper-division science courses.

• In addition to the science courses, students must complete at least one course with content covering health disparities, professionalism, and/or ethics.

• Completion of all admission prerequisite courses for the health profession schools to which the student will be applying.

• A UT Dallas post-baccalaureate GPA of at least 3.300.

• Evidence of at least 50 clock hours of approved clinical, community service and/or research activities documented according to program standards.

• Completion of the Health Professions Evaluation (HPE) Process and recommendation by the HPAC Advisory Committee.

Curriculum

A variety of classes are available to students, depending on their particular needs and previous experience in undergraduate science courses. Students are required to work with an HPAC advisor in order to plan their curriculum for the program. HPAC advisors work with students to develop a curricular plan that is based on their individual circumstances, including past academic history and career goals. Courses that may be included to fulfill the certificate program requirements are listed below. Not all courses are taught every semester.

Biology

- BIOL 3101 Classic and Molecular Genetics Workshop
- BIOL 3102 Eukaryotic Molecular and Cell Biology Workshop
- BIOL 3161 Biochemistry Workshop I
- BIOL 3162 Biochemistry Workshop II
- BIOL 3301 Classical and Molecular Genetics
- BIOL 3302 Eukaryotic Molecular and Cell Biology
- BIOL 3305 Evolutionary Analysis
- BIOL 3318 Forensic Biology
- BIOL 3335 Microbial Physiology
- BIOL 3336 Protein and Nucleic Acid Structure
- BIOL 3361 Biochemistry I
- BIOL 3362 Biochemistry II
- BIOL 3370 Exercise Physiology
BIOL 3380 Biochemistry Laboratory
BIOL 3455 Human Anatomy and Physiology with Lab I
BIOL 3456 Human Anatomy and Physiology with Lab II
BIOL 3V20 General Microbiology with Lab
BIOL 4315 Genes, Disease and Therapeutics
BIOL 4340 Proteomics
BIOL 4341 Genomics
BIOL 4345 Immunobiology
BIOL 4350 Medical Microbiology
BIOL 4352 Medical Molecular and Cell Biology
BIOL 4353 Molecular Biology of HIV/AIDS
BIOL 4355 Molecular Biology of Neurological and Hematological Diseases
BIOL 4366 Molecular Biology of Cancer
BIOL 4370 Developmental Neurobiology
BIOL 4V40 Special Topics in Molecular and Cell Biology when topic is Oral Histology

Chemistry

CHEM 2123 Introductory Organic Chemistry Laboratory I
CHEM 2125 Introductory Organic Chemistry Laboratory II
CHEM 2323 Introductory Organic Chemistry I
CHEM 2325 Introductory Organic Chemistry II
CHEM 2401 Introductory Quantitative Methods in Chemistry
CHEM 3321 Physical Chemistry I
CHEM 3322 Physical Chemistry II
CHEM 4381 Green Chemistry and Green Fuels

Neuroscience

SC 3361 Behavioral Neuroscience
SC 3351 Medical Neuroscience
SC 3352 Cellular Neuroscience
SC 3354 Integrative Neuroscience
SC 3356 Neurophysiology
SC 3363 Neuropsychology
NSC 4366 Neuroanatomy
NSC 4367 Developmental Neurobiology

Physics

PHYS 3317 Physics of the Human Body
PHYS 3330 Numerical Methods in Physics and Computational Techniques
PHYS 4381 Space Science

Statistics

STAT 2332 Introductory Statistics for Life Sciences

Other Disciplines

ISIS 2308 Bones, Bodies, and Disease
ISIS 3309 Dental Anthropology
GEOS 3357 Spatial Dimensions of Health and Disease
GEOS 2324 Energy, the Environment and Human Health

All certificate students are required to take, as a part of their program curriculum, a class covering topics in health disparities, professionalism and/or ethics.

Elective Courses

ECON 3330 Economics of Health
GEOS 3357 Spatial Dimensions of Health and Disease
GST 4325 Motherhood and the Technological Womb
HIST 3328 History and Philosophy of Science and Medicine
HIST 1100 Career Exploration for the Health Professions
HIST 1322 Human Nutrition
HIST 3101 Medical Terminology
HIST 3300 Pre-Health Professional Development
HIST 3305 The U.S. Healthcare System
HIST 4380 Special Topics in Healthcare
HMS 4301 Introduction to Healthcare Management
ISIS 2308 Bones, Bodies, and Disease
PHIL 4320 Medical Ethics
PHIL 4321 Philosophy of Medicine

Comment [DDC1]: Title update for 2015 catalog
Deleted: Statistics for Life Sciences
PSCI 4365 Law and Medicine
PSY 2301 Introduction to Psychology
PSY 4346 Human Sexuality
PSY 4328 Health Psychology
S_{:}C 1301 Introduction to Sociology
S_{:}C 4369 Public Health and Society
S_{:}C 4371 Mental Health and Illness
S_{:}C 4372 Health and Illness
SPAN 2341 Medical Spanish

Comment [DDC2]: SPAN3341 was renumbered to SPAN2341 for 2015 catalog
Deleted: SPAN 3341.
### New and Revised Undergraduate Courses
To be offered in 2015-2016

<table>
<thead>
<tr>
<th>Status/School</th>
<th>ARHM</th>
<th>ATEC</th>
<th>BBSC</th>
<th>ENCS</th>
<th>EPPS</th>
<th>GENS</th>
<th>JSOM</th>
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Both the Schools of Arts and Humanities and Arts, Technology, and Emerging Communication, wanted to clarify which courses are required for their majors. As a result, 4 Arts and Humanities courses were revised, and three courses (with the new prefixes of ATEM and ISAE) were created for ATEC.

The course prefixes, ATEM stands for Arts, Technology, and Emerging Communication, while ISAE indicates Interdisciplinary Studies – Arts, Technology, and Emerging Communication.

Additionally the ATEC School created two new ATEC courses and revised two more ATEC course titles to indicate the correct course sequence.

All of these will be offered in the 2015-16 academic year.

Approved March 10, 2015.
School of Arts and Humanities (ARHM)
Courses to be offered in 2015-16
<table>
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<tr>
<td>2015-open</td>
<td></td>
<td>edit *</td>
<td>ap3300</td>
<td>(r9)</td>
<td>AP 3300 Elements of Art and Performance (3 semester credit hours) An analysis of the elements of space, time, image, text, and gesture as they relate to art making in the various visual and performing arts. These elements will also serve as a starting point from which students will investigate notions of creativity, expression, and aesthetics in a workshop setting. This course explores what constitutes a work of art, and ways in which a work of art can be perceived and interpreted. AP 3300 is a requirement for all AP majors and is restricted to majors within the School of Arts and Humanities (Art and Performance, Literary Studies, and Historical Studies). AP 3300 should be taken prior to completing the first 12 hours of upper-division course work. Prerequisite: ARTS 1301 or equivalent. (3-0) S</td>
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<td>mxv062000</td>
<td>2015-03-06 15:19:47</td>
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**request notes**

Revised by removing references to ATEC and EMAC due to ATEC school being spun off. Approved by Lane, 3-2-15 email.

**peoplesoft diff: 000556 2014-08-24 cxj140030**

AP 3300 Elements of Art and Performance (3 semester credit hours) An analysis of the elements of space, time, image, text, and gesture as they relate to art making in the various visual and performing arts. These elements will also serve as a starting point from which students will investigate notions of creativity, expression, and aesthetics in a workshop setting. This course explores what constitutes a work of art, and ways in which a work of art can be perceived and interpreted. AP 3300 is a requirement for all AP majors and is restricted to majors within the School of Arts and Humanities (Art and Performance, Literary Studies, Historical Studies, Arts and Technology, and Emerging Media and Communication). AP 3300 should be taken prior to completing the first 12 hours of upper-division course work. Prerequisite: ARTS 1301 or equivalent. (3-0) S
<table>
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<td>2015-open</td>
<td>arhm1100 (r4) arhm1100.9 group_head series_head</td>
<td>A·HM 1100 Freshman Seminar (1 semester credit hour) This course is a graduation requirement for all freshmen in the School of Arts and Humanities (A·H). Incoming freshmen will learn about the intellectual and cultural environment in the School of Arts and Humanities through lectures, activities, guest panels, and attendance at artistic and cultural events. Students will also learn about A·H majors (Art and Performance, Historical Studies, and Literary Studies), research opportunities, careers, and internships. This course is open to all non-A·H majors. Corequisite: UNIV 1010. (1-1) Y</td>
<td>request notes</td>
<td>peoplesoft diff: 014093 2015-08-23 slm140530</td>
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<tr>
<td>2015-open</td>
<td>arhm2342 (r2) arhm2342.6 group_head series_head</td>
<td>A·HM 2342 Connections in the Arts and Humanities (3 semester credit hours) Interdisciplinary subject matter will vary from semester to semester and will include topics related to Art and Performance, Historical Studies, and/or Literary Studies. (3-0) □</td>
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<td>arhm3342 (r2)</td>
<td>arhm3342.15 group_head series_head</td>
<td>ARHM 3342 Advanced Interdisciplinary Studies in the Arts and Humanities (3 semester credit hours) Focuses on a significant topic or issue through which students are offered an opportunity to gain experience in various analytic and interpretive approaches. Explores interdisciplinary connections among artistic and intellectual endeavors appropriate to a range of courses in the Arts and Humanities. Topics will include the convergence of the liberal arts (Arts and Performance, Historical Studies, and Literary Studies). May be repeated for credit as topics vary (9 semester credit hours maximum). Prerequisites: (HUMA 1301 or equivalent) and □HET 1302. (3-0)</td>
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</table>

**request notes**

Subjects spelled out per Dr. Kane's 10/10/13 email approval. Repeatability phrasing updated to include "as topics vary" and subtitles allowed to match info; clean up approved by Dr. Kane, 11-26-14. Revised description by removing references to ATEC and EMAC due to ATEC school being spun off. Approved by Kane, 3-2-15 email. Updated title requested by Kane, 3-7-15.

**peoplesoft diff: 014378 2015-08-23 slm140530**

A □HM 3342 Advanced Topics Interdisciplinary Studies in the Arts and Humanities (3 semester credit hours) Focuses on a significant topic or issue through which students are offered an opportunity to gain experience in various analytic and interpretive approaches. Explores interdisciplinary connections among artistic and intellectual endeavors appropriate to a range of courses in the Arts and Humanities. Topics may include the convergence of the liberal arts (Arts and Performance, Historical Studies, and Literary Studies) with advanced technology (Arts and Technology and Emerging Media and Communication). May be repeated for credit as topics vary (9 semester credit hours maximum). Prerequisites: (HUMA 1301 or equivalent) and □HET 1302. (3-0)
School of Arts, Technology, and Emerging Communication (ATEC)
Courses to be offered in 2015-16
<table>
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<td>(r4)</td>
<td>ATEC 3352 User Experience Design for Games I (3 semester credit hours) This course focuses on game concept and design processes prior to large-scale development, including idea generation, pre-production, game design documentation, and resource management. Course topics include but are not limited to player motivation, game elements, game dynamics, gaming history and culture, and experiential game-play design. Prerequisite: ATEC 2320 or ATEC 2325 or ATEC 2326. (0-3) Y</td>
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<td>2015-open</td>
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<td>add *</td>
<td>atec3355</td>
<td>(r1)</td>
<td>ATEC 3355 Scripting for Games I (3 semester credit hours) This course explores concepts and best practices of scripting and programming for digital game development. Students will utilize various scripting and programming languages to create basic mechanics, complex game systems, and scripted scenarios. Students will learn proper syntax and code structure as well as how to manipulate objects during run-time. Prerequisite: ATEC 2325. (0-3) T</td>
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**Request Notes:**

Requested by Tara Lewis through eForm, 3-6-15. Course to be offered in Fall 2015.
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<td>ATEC 3356 Games and Narrative I (3 semester credit hours) This course explores the unique challenges of game narrative through practical techniques for narrative creation. Students in this course will analyze storytelling structures across media, game design principles, and the writing process to improve their understanding of narrative structures for games. Course covers both experimental and traditional interactive forms. Prerequisite: ATEC 2325. (3-0)</td>
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**request notes**

Requested by Tara Lewis through eForm, 3-6-15. Course to be offered in Fall 2015.

**peoplesoft diff:**

ATEC 3356 Games and Narrative I (3 semester credit hours) This course explores the unique challenges of game narrative through practical techniques for narrative creation. Students in this course will analyze storytelling structures across media, game design principles, and the writing process to improve their understanding of narrative structures for games. Course covers both experimental and traditional interactive forms. Prerequisite: ATEC 2325. (3-0) T

2015-open | edit *  | ATEC 3364 Level Design I (3 semester credit hours) This course focuses on methods and techniques in level design for interactive games, including paper design, white boxing, flow, goals and feedback, and event scripting. Prerequisites: ATEC 3317 and CS 1334. 3351. (0-3) | mxv062000 2015-03-06 12:51:03 014384 50.0411.00.03 audit: -7.5 m index: -7.5 m match fail | ps info overview change process modify |

**request notes**

Requested by Tara Lewis via 3-6-15 email.

**peoplesoft diff:**

ATEC 3364 Level Design I (3 semester credit hours) This course focuses on methods and techniques in level design for interactive games, including paper design, white boxing, flow, goals and feedback, and event scripting. Prerequisites: ATEC 3317 and CS 1334. 3351. (0-3) Y
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<td></td>
<td>add *</td>
<td>atem1100 (r1)</td>
<td>atem1100.4</td>
<td>ATEM 1100 Freshman Seminar (1 semester credit hour) ATEM 1100 will introduce incoming freshmen to the intellectual and cultural environment of the School of Arts, Technology, and Emerging Communication. Students will learn about plans of study, career paths, research, and the connections to other fields and disciplines for both Arts and Technology majors and Emerging Media and Communication majors. Required for all freshmen in the School of Arts, Technology, and Emerging Communication; open to all non-ATEC majors. Corequisite: UNIV 1010. (1-1) Y</td>
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<td>isae2121.2</td>
<td>ISAE 2121 Careers for ATEC Majors (1 semester credit hour) This course provides students with assistance in exploring careers related to Arts, Technology, and Emerging Communication fields and in making effective career decisions. (1-0)</td>
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<td>add * isae4v50 (r1) isae4v50.2 group_head series_head</td>
<td>ISAE 4V50 Internship (1-3 semester credit hours) Students undertake a new learning experience at a supervised work situation related to their academic interests. An internship provides exposure to a professional working environment, application of theory to working realities, and an opportunity to test skills and clarify goals. May be repeated for credit (6 semester credit hours maximum). Department consent required. (.1-3-.0) S</td>
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2015-16 Graduate Catalog
“1st 40” Policies

A Synopsis of Revisions

The Graduate Council has approved the revisions made to the graduate catalog’s 1st 40 policies on April 1, 2014.

The master report includes only those policies that have been revised for the upcoming 2015-16 graduate catalog. Therefore, not every policy will be included in this report.

About UT Dallas

- About UT Dallas: updated to reflect current statistics and academic year
- University Officers: revised to include the undergraduate Honors College and the School of Arts, Technology and Emerging Communication
- University of Texas System Board of Regents: updated to reflect new Regents

Graduate Admissions Policies

- The Dean of Graduate Studies, the Office of Admission And Enrollment, and the Registrar’s Office, and the Graduate Council reviewed the graduate admissions policy.
- It now has new subheadings; some content was revised and rearranged to improve clarity.
- We will update the web catalog to have additional sidebar menu options.

The list of registration and enrollment requirements has been updated to reflect the revisions below.

Registration and Enrollment Policy

- The registration and enrollment requirements policy was rearranged in a logical manner.
- The Dean of Graduate Studies reviewed and revised the language for clarity.
- The registration language was revised to emphasize that students are not permitted to sit in classes without being officially enrolled or auditing the course.
- The readmission section was updated.
- Under undergraduate registration, the updated Fast Track policy, as agreed at the CEP meeting on March 3, 2015, has been added to the catalog copy.
- A new entry for course offerings, the type of courses offered by UT Dallas, was added to assist the UTD community in fielding questions about courses.
- The updated repeatable policy, as approved by CEP and Senate in October 2015, has been added to the 1st 40 policies catalog copy.
- The grade scale was updated to match three decimal places set up in PeopleSoft (Orion).
- The student travel policy was updated.
- An international travel policy was added to supplement the student travel policy.

**Other Policies and Resources (Bursar, Financial Aid, Registrar, Student Affairs, etc.)**

- Each department, such as the Bursar, Financial Aid, Registrar, Student Affairs, among many others, had the opportunity to review their relevant changes.
- They include the following catalog web pages:
  - Tuition and Financial Aid
  - Tuition Refunds
  - Other User Fees
  - Financial Aid and Types of Financial Aid
  - List of Resources for Study and Campus Life
  - Resources for Study and Campus Life
  - Appendix I: changed copyright contact to University Attorney contact
2015-2016 Graduate Catalog

About the Graduate Catalog

The University of Texas at Dallas Graduate Online Catalog is a general information publication only. The catalog intends to reflect current academic policies, procedures, degree offerings, course descriptions, and other information pertinent to graduate study at The University of Texas at Dallas. It is not intended to nor does it contain all regulations that relate to students. The provisions of this catalog do not constitute a contract, express or implied, between any applicant, student or faculty member and The University of Texas at Dallas or The University of Texas System.

The University of Texas at Dallas reserves the right to change the provisions of this catalog at any time, including, but not limited to: withdraw courses at any time, to change fees or tuition, calendar, curriculum, course offerings, degree requirements, graduation procedures, and any other requirements affecting students as necessitated by legislative or regental action. Changes will become effective whenever the proper authorities so determine and will apply to both prospective students and those already enrolled.

The online version of The University of Texas at Dallas Graduate Catalog is the official version. The online catalog will be updated periodically and will contain all major policy changes that occur during the 2015-16 catalog cycle. The official publication date of this catalog is August 2015.

Although this catalog was prepared on the basis of the best information available at the time, and the information is updated regularly, users are cautioned about the following:

- Editorial, clerical, and programming errors may have occurred in the publication of this website, and The University of Texas at Dallas assumes no responsibility for such errors.
- There is a lag time between approved changes and their publication on this website.
- Graduate students can graduate either under the catalog in effect when they enter or the catalog in effect when they complete their degree.

Students are held individually responsible for complying with all requirements of the rules and regulations of the university and the Board of Regents of The University of Texas System. Failure to read and comply with policies, regulations, and procedures will not exempt a student from whatever penalties the student may incur.

Accreditation

The University of Texas at Dallas is accredited by the Southern Association of Colleges and Schools, Commission on Colleges (SACSCOC) to award baccalaureate, masters, and doctoral degrees. Contact SACSCOC at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call (404) 679-4500 for questions about the accreditation of The University of Texas at Dallas.
Equal Educational Opportunity Statement

The University of Texas at Dallas is committed to providing an educational, living and working environment that is welcoming, respectful and inclusive of all members of the university community. An environment that is free of discrimination and harassment allows members of the university community to excel in their academic and professional careers. To that end, to the extent provided by applicable federal and state law, the University prohibits unlawful discrimination against a person because of their race, color, religion, sex (including pregnancy), national origin, age, disability, genetic information, or veteran status. The University's commitment to equal opportunity extends its nondiscrimination protections to include sexual orientation, gender expression and gender identity.

Catalog Publish Date: August 2015

Updated: September 29, 2014 - Visitor: 8478
About UT Dallas

Historical Sketch

Prior to World War II, Eugene McDermott, Cecil Green, and J. Erik Jonsson, the founders of Geophysical Services, Inc., were in the business of searching for natural resources. The war changed the focus of the company from searching for natural resources to creating instruments that aided in finding enemy planes and submarines. GSI spawned Texas Instruments and in 1958, TI employee Jack Kilby invented the integrated circuit that launched a new era for the company, for North Texas, and for the world.

During the expansion of Texas Instruments, the Founders were forced to import engineering talent from outside the state, while the region's bright young adults pursued education elsewhere. McDermott, Green, and Jonsson saw that Texas needed highly educated minds if the state were to remain competitive in the decades to come. They noted that, in 1959 alone, Columbia University conferred 560 doctoral degrees - more than the entire Southwest region. They wrote at the time, "To grow industrially, the region must grow academically; it must provide the intellectual atmosphere, which will allow it to compete in the new industries dependent on highly trained and creative minds."

Therefore, they established the Graduate Research Center of the Southwest (later renamed the Southwest Center for Advanced Studies - SCAS) in 1961. The center recruited some of the best scientific talent in the nation. The Texas Legislature concurred with the vision of the Founders and mandated in 1967 that science and technology educational opportunities needed to exist in North Texas. McDermott, Green, and Jonsson decided to donate SCAS and its lands to The University of Texas System, and on June 13, 1969, Governor Preston Smith signed the bill creating The University of Texas at Dallas. The SCAS scientists formed the core of UT Dallas' educational infrastructure.

By terms of its enabling legislation, UT Dallas offered only graduate degrees until 1975 when the addition of juniors and seniors increased enrollment from 408 in 1974 to more than 3,300 students. By the fall of 1977, the enrollment reached over 5,300. In 1986, UT Dallas established the Erik Jonsson School of Engineering and Computer Science. Today, the Jonsson School plays a critical role in providing a highly educated work force for the advanced technology industry.

The Rise to National Prominence

In 1990, the Texas Legislature authorized UT Dallas to admit lower division students. UT Dallas' first freshman class consisted of only 100 students. Despite its small size, this cohort's achievements set the standard for future classes. Since then, freshman classes have grown in size while the university has maintained high enrollment standards. Nationally published data indicate that UT Dallas' freshman class compares extremely well with those from many prominent national universities. UT Dallas consistently has three-fourths of its entering freshmen in the top twenty-five percent of their graduating class with many coming from the state's most competitive high schools.

The university's ability to attract and retain these students has propelled The University of Texas at Dallas into national prominence within a few short years. US News and World Report ranks UT Dallas as one of the three best public universities in the state along with UT Austin and Texas A&M. Kiplinger's Personal Finance
Magazine, in its February 2015 article "Top 100 Best Values in Public Colleges, 2015," ranked UT Dallas 34th among all public universities nationally, gaining 21 spots from 60th last year. The quality of the students who attend UT Dallas has remained consistently high. Thirty-eight percent of the incoming freshmen are in the top 10% of their high school graduating class and their average SAT scores place them in the top twenty percent of all college-bound students. In recent years, UT Dallas has ranked among the top 100 American universities in terms of the number of National Merit Scholars enrolled.

The addition of freshmen has accelerated the rise in the percentage of full-time undergraduates from 31% in 1986 to 81% in 2014. Masters, doctoral and post-baccalaureate students currently comprise 38% of the student body. Given its location and mission, UT Dallas will continue to have significant numbers of professionals attending undergraduate or master’s courses part-time.

The transition of the university from a part-time upper division school to a four-year university with an emphasis on engineering, mathematics, the sciences and the management of new technologies has been greatly facilitated by the university’s faculty. By retaining key faculty members and attracting more nationally and internationally prominent researchers and instructors, UT Dallas has enabled its faculty to provide quality instruction to an increasingly diverse student population while sustaining the university’s longstanding research tradition. During this same period, the university expanded its teaching mission, enhanced its areas of focused excellence and became independently recognized as one of the top public universities in the nation.

Mission

The University of Texas at Dallas provides the State of Texas and the nation with excellent, innovative education and research. The university is committed to graduating well-rounded citizens whose education has prepared them for rewarding lives and productive careers in a constantly changing world; to continually improving educational and research programs in the arts and sciences, engineering, and management; and to assisting the commercialization of intellectual capital generated by students, staff, and faculty.

Organization

The University of Texas at Dallas is one of nine universities and six health institutions governed by The University of Texas System's nine regents, who are nominated by the governor, selected from different areas of the state, and appointed with the advice and consent of the Texas Senate.

UT Dallas consists of seven schools, each headed by a dean: School of Arts and Humanities, School of Behavioral and Brain Sciences, Erik Jonsson School Engineering and Computer Science, School of Economic, Political and Policy Sciences, School of Interdisciplinary Studies, Naveen Jindal School of Management, and School of Natural Sciences and Mathematics. The schools, in turn, consist of teaching and research programs that provide the disciplinary foundations of the university. In addition to the usual disciplinary approaches, the university has a strong commitment to interdisciplinary study at both the graduate and undergraduate levels. Most faculty members teach in both graduate and undergraduate areas so that the character of their instruction is informed by critical examination of the most recent developments in their fields.
The Office of Graduate Studies coordinates graduate education across the seven schools. The Graduate Council, chaired by the Dean of Graduate Studies, oversees degree requirements, and develops and implements educational policy.

Updated: September 29, 2014 - Visitor: 73
University Officers

President's Cabinet

President
David E. Daniel, PhD

Executive Vice President and Provost
Hobson Wildenthal, PhD

Vice President and Chief Information Officer
Andrew Blanchard, PhD

Vice President of Diversity and Community Engagement
George Fair, PhD

Vice President for Research
Bruce E. Gnade, PhD

Vice President for Administration
Calvin Jamison, EdD

Vice President for Budget and Finance
Terry Pankratz, MBA, CPA

Vice President for Student Affairs
Susan Rogers, EdD

Vice President for Public Affairs
Amanda Rockow, MA

Vice President for Advancement

Comment [MJ1]: Change to David Crain when he joins UTD.

Comment [MV2]: Retiring in June 2015 per Mercury article, 3-30-15.

Deleted: Interim Vice President for Development and Alumni Relations
Dwight Clasby, MEd
Administrative Officers / Deans

Senior Vice Provost
Inga Musselman, PhD

Vice Provosts
Richard Brettel, PhD
Emily A. Tobey, PhD
John J. Wiorkowski, PhD

Dean of Undergraduate Education
Andrew J. Blanchard, PhD

Dean of Graduate Studies
Austin J. Cunningham, PhD

Dean of Honors College
Edward J. Harpham, PhD

Dean of Students
Gene Fitch, EdD

University Registrar
Jennifer M. McDowell, MPA

Dean of McDermott Library
Ellen D. Safley, PhD

Academic Deans of Academic Units

School of Arts and Humanities

Dean
Dennis M. Kratz, PhD

Associate Dean of Graduate Studies
Michael L. Wilson, PhD

Associate Dean of Undergraduate Studies
Shelley D. Lane, PhD

School of Arts, Technology and Emerging Communication

Dean

Associate Dean of Graduate Studies

Associate Dean of Undergraduate Studies

School of Behavioral and Brain Sciences

Dean

Bert S. Moore, PhD

Associate Dean, Graduate Studies

Robert D. Stillman, PhD

Associate Dean, Undergraduate Studies

Melanie J. Spence, PhD

School of Economic, Political and Policy Sciences

Dean

Denis J. Dean, PhD

Associate Dean for Graduate Education

Alex R. Piquero, PhD

Associate Dean of Undergraduate Studies

Euel W. Elliott, PhD

Erik Jonsson School of Engineering and Computer Science

Dean

Mark W. Spong, PhD
Associate Dean of Academic Affairs
Poras T. Balsara, PhD

Associate Dean for Undergraduate Education
Simeon Ntafos, PhD

School of Interdisciplinary Studies
Dean
George W. Fair, PhD

Associate Dean for Undergraduate Studies
Dachang Cong, PhD

Naveen Jindal School of Management
Dean
Hasan Pirkul, PhD

Senior Associate Dean
Varghese S. Jacob, PhD

Associate Dean, Executive Education
Gerald (Jerry) Hoag, MBA

Associate Dean, Graduate Programs
Monica Powell, PhD

Associate Dean, Undergraduate Programs
Marilyn Kaplan, PhD

Associate Dean, Undergraduate Programs
Matt Polize, JD

Assistant Dean, Undergraduate Studies
Thomas (Tom) Henderson, MS

School of Natural Sciences and Mathematics
Dean
Bruce M. Novak, PhD
Associate Dean for Graduate Studies
Juan E. González, PhD

Associate Dean for Undergraduate Studies
Dennis L. Miller, PhD
The University of Texas System Board of Regents

Officers
Paul L. Foster, Chairman
R. Steven "Steve" Hicks, Vice Chairman
Francie A. Frederick, General Counsel

Members

Terms Scheduled to Expire February 1, 2017
Regent Alex M. Cranberg
Regent Wallace L. Hall, Jr.
Regent Brenda Pejovich

Terms Scheduled to Expire February 1, 2019
Chairman Paul L. Foster
Regent Ernest Aliseda
Regent Jeffrey D. Hildebrand

Terms Scheduled to Expire February 1, 2021
Vice Chairman R. Steven "Steve" Hicks
Regent David J. Beck
Regent Sara A. Tucker

1. The actual expiration date of the term depends on the date the successor is appointed, qualified, and takes the oath of office.
About Graduate Admission

The University of Texas at Dallas is a comprehensive, state supported institution of higher learning, offering a variety of programs at the undergraduate, masters, and doctoral levels. UT Dallas is committed to providing quality education to a diverse student body and offers programs designed for both full-time and part-time students. The University of Texas at Dallas accepts applications for admission from graduate students for the fall, spring and summer semesters.

Admission to UT Dallas is open to all candidates on the basis of academic preparation, ability, and availability of space without regard to race, color, religion, national origin, gender, age, disability, citizenship, veteran status, or sexual orientation.

Graduate Admissions

For more detailed information, contact the Graduate department or program to which you are applying since each program has specific admission requirements listed at [http://www.utdallas.edu/admissions/graduate/degrees](http://www.utdallas.edu/admissions/graduate/degrees).

Graduate application deadlines and available terms of entry may vary by program. Please refer to the application section in this catalog. International applicants may have different deadlines; please refer to both the application section in this catalog and the International Students graduate admissions website for more information.

As with all state institutions of higher education, the procedures and criteria for admission used by UT Dallas are effective as of the publication date of this catalog but are subject to change by actions of the Texas legislature or the Board of Regents.

Admission Requirements for Graduate Study

Each program has specific admission requirements listed at [www.utdallas.edu/admissions/graduate/degrees](http://www.utdallas.edu/admissions/graduate/degrees).

At a minimum, all applicants must meet the following admissions requirements:

Master's Programs

The minimum requirement for admission to any master's degree program at UT Dallas is an earned UT Dallas baccalaureate degree or its equivalent from an accredited institution with a grade average of C or better in upper-division (junior and senior level) work in the student's major field and related fields. This minimum requirement for admission to any master's degree program.

Applicants in their final year of undergraduate study may be admitted to a masters degree program at UT Dallas. Evidence for the conferral of the baccalaureate degree must be presented before enrollment the master's degree program is permitted, on the condition that their bachelor's degree is awarded before enrollment at UT Dallas.

Students who have completed a relevant and acceptable master's degree and have submitted official
degree conferral documentation are only required to submit unofficial copies of their baccalaureate degree transcripts and degree conferral.

Doctoral Programs

The minimum requirement for admission to any doctoral program is an appropriate earned UT Dallas master's degree or its equivalent from an accredited graduate institution, with an average of at least 3.0, or demonstrated comparable research competence. Applicants currently enrolled in post baccalaureate study may be admitted on the condition that official documentation confirming the conferral of their master's degree is presented before enrollment at UT Dallas is permitted.

Some departments admit directly to the doctoral program from a bachelor's degree for highly qualified candidates.

Graduate Certificate Programs

UT Dallas offers a number of graduate level certificate programs that typically involve 9 to 15 semester credit hours of graduate coursework in a focused area of study. Each certificate at UT Dallas consists of a subset of the courses from a current master's degree program offering. For a full list of our current certificate offerings please refer to www.utdallas.edu/academics/certificates.html

Each certificate provides specialized training to help expand a student's areas of expertise, teaches them about new developments in their field, augments their professional skills and provides credentials that help advance their careers. In addition the certificate offering enables students to test the waters before deciding to pursue a master's degree in that area. Students who are later accepted to the master's program may be allowed to count some or all of their completed certificate courses with grades of B or better toward their master's degree. A student may pursue a graduate certificate and master's degree concurrently.

Admission to graduate-level certificate programs requires a bachelor's degree and an undergraduate record indicative of readiness for graduate work. Many certificate programs do not require admissions tests such as the Graduate Record Examination (GRE) or Graduate Management Admission Test (GMAT) unless or until a student seeks admission to a related master's program.

Specific Admission Requirements

As a Degree-Seeking Graduate Student

Official Transcripts

The term official Transcript is understood to refer to the official recorded results of the student's academic work in a sealed envelope signed and stamped by the registrar or by an authorized official of the issuing college or university. It is the responsibility of the applicant to provide English translations of transcripts and documents that are in a language other than English. This documentation should be sent to:

Office of Admission and Enrollment
The University of Texas at Dallas  
800 West Campbell road  
Richardson, Texas 75080-3021  

All materials submitted in the process of applying to the university become the property of the university and will not be returned to the applicant. Falsifying or omitting information may result in withdrawal of any offer of acceptance, cancellation of enrollment, and/or disciplinary actions.

Admission to a master's degree requires that an official transcript demonstrating the completion of a bachelor's degree with a grade average of 3.0 or better in upper-division (junior and senior level) work in the student's major field and related fields from UT Dallas or another accredited institution be submitted at the time of enrollment. An applicant who has earned a baccalaureate degree under the academic fresh start statute (Texas Education Code, Section 51.931) will be evaluated only on the grade point average (GPA) of the coursework completed for that baccalaureate degree and the other criteria stated in this catalog.

Students who have completed a relevant master's degree and have submitted official master's degree conferral documentation are only required to submit unofficial copies of their baccalaureate degree transcripts and degree conferral.

An official transcript demonstrating the completion of a master's degree, submitted at the time of enrollment, is required for admission to a doctoral degree. Some departments admit highly qualified candidates directly to the doctoral program from a bachelor's degree.

**Graduate Admission Examination Scores (GRE, GMAT)**

Standardized test scores must be official and reported directly by the Educational Testing Service (ETS) should be sent to The University of Texas at Dallas, Code 6897. The Graduate Management Admissions Test (GMAT) is required if applying to the Naveen Jindal School of Management and the Graduate Record Examination (GRE) revised General Test is required if applying to all other schools except the School of Arts and Humanities, PA, S, or L. Each degree program sets its own criteria for what constitutes a satisfactory score for degree-seeking admission (see [http://www.utdallas.edu/admissions/graduate_degrees](http://www.utdallas.edu/admissions/graduate_degrees)).

The information about the GRE and GMAT examinations given below was current at the time this catalog was published. Applicants should be advised that both examinations are undergoing changes in format and design.

**Graduate Record Examination (GRE)**

The GRE revised general test is offered on a year-round basis at regional testing centers in a computer-based testing (CBT) format. Information on regional CBT testing may be obtained directly from Graduate Record Examination, Educational Testing Service, P.O. Box 6000; Princeton, NJ 08541-6000; by phone 1-610-771-7670 or 1-866-473-4373, via email through its email form or direct email, or go to [http://www.ets.org/gre](http://www.ets.org/gre). Applicants should specify by both institution and code that the test score be sent to The University of Texas at Dallas, Code 6897.

**Graduate Management Admission Test (GMAT)**

The GMAT is offered on a year-round basis at regional testing centers in a computer-based testing (CBT) format. Information on regional CBT testing sites may be obtained directly from the GMAT website; by phone 1-800-717-GMAT (4628); via email; or go to [http://www.mba.com](http://www.mba.com). Applicants should specify by both institution and code that the test score be sent to The University of Texas at Dallas, Code 6897.
Narrative

A narrative is submitted by the applicant outlining academic interests in the UT Dallas degree program of interest, current or long-range interests in research, teaching, or other professional objectives; describing publications or other scholarly endeavors; listing of academic and professional organizations and fellowships, scholarships, or other honors received (for additional information see http://www.utdallas.edu/admissions/graduate/degrees).

Request for Recommendation Forms

Applicants must ask three individuals (employers, community leaders, teachers, etc.) who are able to judge their ability to complete the graduate study program and their probable success in graduate school by completing recommendation forms. These letters of recommendation may be sent directly to the contact listed for the degree program. The form is located at: http://www.utdallas.edu/admissions/graduate/documents/Grad REQ Recommendation.pdf. Letters of recommendation can also be requested online as a part of the Graduate Application for Admission.

In accordance with Chapter 51, of the Texas Education Code, decisions on admission to degree-granting graduate programs at UT Dallas are based on holistic considerations of all submitted information regarding the academic, career, and personal histories of the applicants. Standardized test scores and coursework GPA levels cited in the catalog descriptions of some degree programs are listed for advisory purposes only, to indicate the typical achievement levels of students enrolled and succeeding in the various programs. No single quantitative or qualitative measure; or any specific combination thereof, constitutes a definitive standard for admission. Rather, each application will be considered individually and each applicant's complete profile of strengths and prospects for successful completion of the program will be evaluated by the admissions committee. Applicants are encouraged to contact the graduate advisor in the degree program in which they expect to enroll to discuss specific admission requirements.

Applicants who satisfy all of the above criteria qualify for regular admission to the degree program.

Special Admission Requirements

Students denied this admission status may qualify for admission under one of the following special admission requirements: categories:

**as a Conditional Degree-Seeking Graduate Student**

Upon review of the credentials of an applicant seeking regular admission to a UT Dallas degree program, the graduate studies committee of that degree program may recommend, and seek concurrence of the Dean of Graduate Studies, that the applicant being admitted be subjected to specific conditions being satisfied over a specified time period. Such conditions might include requiring additional semester credit hours to be taken, and/or a specific GPA to be maintained. A student satisfying the conditional requirements within the specified time period will then qualify for regular admission. The graduate advisor in the academic program will monitor compliance with the admissions conditions. A student who does not fulfill the specified conditions within the time period specified at the time of admission will be barred from continued registration in the degree program.

Normally a student cannot remain in conditional status for more than one calendar year. Exceptions to the one-year limitation can be granted only by the Dean of Graduate Studies upon recommendation of the graduate program. Under no circumstances will the student be allowed to remain enrolled under Conditional Status for more than 15 semester credit hours or two consecutive years, whichever comes first. Within these limits, specified graduate level coursework taken as a conditionally admitted student can be applied to the degree program.
as a **Non-Degree Seeking Graduate Student**

A student wishing to take graduate level coursework without becoming a candidate for a graduate degree may apply for admission to UT Dallas as a non-degree seeking graduate student. The non-degree student seeking admission to the master's degree program must satisfy the condition of having an earned baccalaureate degree for admission to a master's degree program at UT Dallas. He/she should consult with the department or program offering the graduate level coursework to determine GRE/GMAT and letters of recommendation requirements.

He/she **The applicant** should consult with the graduate advisor in the department or program offering the graduate level coursework. The graduate advisor in the degree program will define specific eligibility requirements and admit students to the courses open to non-degree enrollment each semester. Enrollment as a non-degree student is restricted to the regular registration period each semester. Please refer to the course catalog in each school for this information on prerequisite requirements for each course.

The non-degree student seeking admission to the master's degree program must satisfy the condition of having an earned baccalaureate degree for admission to a master's degree program at UT Dallas. He/she should consult with the department or program offering the graduate level coursework to determine GRE/GMAT and letters of recommendation requirements.

Enrollment as a non-degree seeking graduate student is subject to review and approval by the Associate Dean of Graduate Studies in the specific school. No more than 15 semester credit hours taken as a non-degree enrolled student at UT Dallas may be transferred to satisfy the requirements of a graduate degree program, except with the Dean of Graduate Studies. Students admitted as non-degree seeking may not be eligible for financial aid and should consult the UT Dallas Financial Aid office regarding their status prior to submission of their application for admission.

**TE:** International students are not eligible to maintain F-1 or J immigration status by participating in a non-degree seeking program. Exceptions include those enrolling in pre-established international exchange mobility programs, and transient or visiting F-1 and J-1 students whose immigration documents are issued by another U.S. college or university.

### as a Graduate Student Taking Only Undergraduate Courses

Upon review of the academic background leading to the award of a bachelor's degree by the academic advisor in the graduate program, a student may elect to take or be restricted to taking only undergraduate level courses. The Associate Dean of Graduate Studies and the Associate Dean for Undergraduate Studies in the specific school must approve enrollment in the undergraduate courses and the student will be required to maintain the same scholastic standards as regularly admitted undergraduates. In addition, the student will receive academic guidance from the advisor in the school. Students restricted to taking undergraduate courses may not take graduate courses in a degree program at the same time. Consultation with the UT Dallas Office of Financial Aid regarding aid eligibility is strongly advised before enrolling.

### International Graduate Students

#### English Proficiency Requirements
Applicants educated at non-U.S. institutions should note that their educational background will be assessed for equivalency with a UT Dallas degree as described above. International applicants expecting to hold a non-immigrant visa type, from non-English speaking countries, whose primary language is not English and who graduated from a non-U.S. university where the language of instruction and examination was not English, must demonstrate English proficiency.

**English Proficiency Requirements**

English proficiency requirements can be met by one of the following methods:

- Achieving a minimum score of 550 on the Test of English as a Foreign Language (TOEFL P. T. (paper-based test)).
- Achieving a minimum score of 80 on the Test of English as a Foreign Language (TOEFL I.T. (Internet-based test)),
- A minimum score of 6.5 on the International English Language Testing System (IELTS) test,
- A minimum score of 67 on the Pearson's Test of English Academic (PTE), or
- A successful completion in level 112 of English from the Educational Language Centers.

http://www.els.edu

This requirement should be met at the time the admission application is submitted. Applicants with lower scores will be considered but are advised to improve their test scores and reapply.

Applicants native to a country where the primary language is English and have earned a baccalaureate degree from an accredited institution of higher education where the language of instruction and examination was in English are excused from this requirement. Scores must not be more than two years old, and an official copy must be sent from the testing agency to:

Office of Admission and Enrollment
The University of Texas at Dallas
800 West Campbell Road
Richardson, Texas 75080-3021

Higher scores may be required if the applicant is to succeed in the competition for Teaching Assistant openings.

**English Requirements for Teaching Assistants**

Students are required to be able to speak and write English clearly and well. Texas state law and regulations, *Texas Education Code*, Section 51.917, require that international students appointed as Teaching Assistants (TA's) be proficient in the use of the English language. An English Proficiency Interview conducted under the auspices of the office of the Dean of Graduate Studies will be used to screen for students requiring remedial help in the form of English as a Second Language (ESL) course. International students must satisfy the proficiency requirement upon appointment or pass the ESL course within two semesters to be eligible for consideration of continued appointment as a TA. Regardless of test scores, students must meet the language requirements of their programs.
Graduate Study Abroad Eligibility and Conditions

Students must have a minimum of 2.00 GPA (grade point average) to participate in study abroad, independent studies, or internships. Students must have a minimum of 3.00 GPA to participate in exchange programs. GPA requirements for faculty-led programs are determined by the academic unit offering the program.

Graduate students must have a minimum of 9 semester credit hours at UT Dallas (resident semester credit hours) prior to participating in study abroad programs, exchange programs, independent studies or internships.

International applicants wishing to attend UT Dallas as a Visiting Graduate Researcher (J-1 Exchange Visitor) should contact directly the academic unit where they want to pursue the program to obtain an invitation letter. This modality does not imply registration of credits, transcripts and tuition. The J-1 Exchange Visitor is subject to the premises of the Human Resources Management Office. For more information regarding the flow of J-1 exchange visitor process please consult http://www.utdallas.edu/hrm/toolkits/foreign/J1.php5.

Graduate students wishing to attend UT Dallas as an exchange student from one of our partner institutions should contact the UT Dallas Office of International Education (OIE) at http://www.utdallas.edu/oie/ies.htm. This modality does not imply full time enrollment (9 semester credit hours) for long term semesters (Fall and Spring) and payment of tuition and fees at the home institution.
Graduate Admission

Application

To apply to UT Dallas, prospective graduate students should use a web-based application form that can be accessed using the "Apply Now" link for each degree listing at: www.utdallas.edu/admissions/graduate

Applicants are advised to carefully review the program information and the semester specific deadlines for domestic and international applications. Applicants are required to submit official copies of all past academic transcripts, test scores, and other degree specific documentation by the appropriate application deadlines to be considered for admission to The University of Texas at Dallas.

Application Fees and Deadlines

All fees are nonrefundable.

- The application fee is $50 if your application is submitted on or before the regular application deadline.
- If you submit your application after the application deadline but prior to the completed application deadline (application and all required documents) the application fee is $125 in order to process your application for decision in time to register for classes.
- Applicants with international academic documents will be assessed an additional foreign credential evaluation fee of $50.
- All supporting documents and transcripts, with the exception of courses in progress, must be received in the Office of Admissions and Enrollment by the completed application deadline.
- A new application must be completed and submitted for consideration for any subsequent semester for all incomplete applications after the documentation deadline.

Domestic and international applicants are urged to plan ahead and apply as early as possible and to allow adequate time for review by the admissions committees. To ensure consideration for financial assistantships students are urged to submit a completed application nine months prior to anticipated enrollment. Applicants are advised to refer to www.utdallas.edu/admissions/graduate/degrees for additional information on specific admission deadlines for each degree program. Applications submitted after the application deadline and before the completed application deadline (application and all required documents) deadline will still be processed; however, a decision may not be reached in time for students to avoid late registration.

Domestic applicants should have all necessary application materials to the Office of Admission and Enrollment prior to the following dates:

<table>
<thead>
<tr>
<th>Term</th>
<th>Regular Application Deadline</th>
<th>Late Application and Documentation Deadline (Complete Admissions Application File Due)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>
International applicants who are not citizens or permanent US residents should submit all necessary application materials to the Office of Admission and Enrollment by the following dates:

<table>
<thead>
<tr>
<th>Term</th>
<th>Regular Application Deadline</th>
<th>Late Application and Documentation Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Full-Term</td>
<td>May 1*</td>
<td>June 1*</td>
</tr>
<tr>
<td>Spring Full-Term</td>
<td>September 1*</td>
<td>October 1*</td>
</tr>
<tr>
<td>Summer Sessions</td>
<td>March 1*</td>
<td>April 1*</td>
</tr>
</tbody>
</table>

*International applicants with visa types other than F1 or J1 visas may adhere to the domestic application deadlines and dates, but will still be assessed late fees according to the international deadline dates.

Students seeking appointments as Teaching Assistants or Research Assistants should contact the academic advisor for the degree program and plan for earlier application submissions.

The Office of Admission and Enrollment, located in the Student Services Building, can assist prospective students in exploring the possibility of graduate study at UT Dallas. For detailed admissions or academic advice, please contact the specific academic program by visiting www.utdallas.edu/admissions/graduate/degrees.

Updated: September 29, 2014 - Visitor: 699
List of Registration and Enrollment Requirements

Registration and Enrollment Policies
- orientation
- Academic Good Standing
- Continuous Enrollment
- Dates of Early, Regular and Late Registration
- Paying Fees as a Part of Registration
- Leave of Absence
- Readmission

Undergraduate Registration for Graduate Courses
- Undergraduate Registration for Graduate Courses
- Graduate Courses Applied Toward an Undergraduate Degree
- Graduate Courses for Possible Future Use as Graduate Credit
- Graduate Courses Taken in Fast Track Options

Cooperative Arrangements
- Cooperative Arrangements
- Concurrent Enrollment at Other Public Institutions
- The University of Texas System
- Visiting Student Program
- Texas A&M University System

Schedule Changes
- Schedule Changes: Dropping, Adding and Withdrawing From Courses
- Withdrawal (Designation) from the University

Course Policies
- Auditing Courses
- Course Numbering System
- Frequency of Course Offerings
- Course Mailing Address
- Repeating Course Work
- Taking Unlimited Repeatable Courses
- Taking Limited Repeatable Courses
- Repeating Courses to Improve Grades
- Final Examinations

Grades
- Grades and Grade Point Average
- Grade of I: Incomplete
- Grade Changes
- Pass/Fail Grading

Military Service
- Military Service Activation Interruption of Education
- Option to Enrolled and Complete Coursework Following Brief Military Service
- Option to Withdraw, Receive Incomplete Grade, or Receive Final Grade
- Admission Following Military Service

Other Policies
- Change of Address, Email or Name
- Criminal Background Check
- Making a False Alarm or Report Involving a Public or Private Institution of Higher Education
- Religious Holy Days
- Student Travel Policy
- International Travel, Policies and Services
Graduate Admission

Registration and Enrollment Requirements

Following the receipt of your admission letter, per State legislation effective January 1, 2012, all entering Texas college students must receive a vaccination or booster (if the vaccination is five years old) against bacterial meningitis before enrollment in accordance with Texas Education Code, Section 51.9192. Entering students who are 22 years of age or older are exempt. Questions concerning the bacterial meningitis requirement and forms should be directed to the Office of the Registrar, 972-883-2342 or go to www.utdallas.edu/student/registrar.

A graduate student must be registered in any session:

- during which they are taking courses, or taking examinations, required in his/her degree program.
- in which he/she requires guidance in the preparation of a thesis or dissertation required in his/her degree program. Additionally, a thesis/dissertation student must complete in a total of at least three thesis or dissertation semester credit hours prior to graduating.
- for at least one semester credit hour in the semester in which they plan to graduate. The graduating students may avail themselves of this rule only one time. Some programs may require additional semester credit hours in the semester a student plans to graduate.
- have paid all required fees in the semester in which he/she plans to graduate.

Orientation

New student orientation sessions are designed to assist new students with an understanding of university rules and regulations and to provide information about registration procedures, academic programs, and student life. New student orientation programs are available for UT Dallas freshmen, undergraduate transfer students, graduate students, international students, and teaching and research assistants. Attendance is strongly recommended for all new students as a means of efficient matriculation into the university. International Student orientation is mandatory for all F and J status international students. TA and RA orientation is mandatory for all newly appointed Teaching and Research Assistants.

Academic Good Standing

Registration in the graduate programs beyond the first semester (or summer session) is contingent on the student's being in good academic standing based on three main factors:

- Satisfactory progress in meeting admission conditions that were imposed at the time of admission.
- Maintenance of a minimum 3.0 cumulative grade point average (GPA) in graduate courses in the degree program.
- Satisfactory progress in meeting program degree requirements.
If, at the end of a semester, a student's cumulative GPA is below 3.0, the student will be placed on academic probation. The student must earn sufficient grade points during the next two semesters of registration to raise the cumulative GPA to at least 3.0 exclusive of incomplete (I) grades. Failure to achieve this 3.0 cumulative GPA will result in immediate dismissal from the university.

A student must have a GPA of at least 3.0 to be eligible to graduate with a masters or doctoral degree.

Continuous Enrollment

Unless on an approved leave of absence, a graduate student in a degree program must maintain continuous enrollment during the fall and spring (long session) semesters of each academic year. A graduate student who fails to register in any given long session will be permitted to re-enroll through his/her program office in any two subsequent semesters provided the student was in good academic standing at the time of last enrollment.

Registration and Readmission Requirements

A continuing student in good academic standing may register in one of three ways:

- online, with the department or program office,
- with the Office of the Registrar during registration, or
- early to increase the probability of enrollment in available courses.

The Office of the Registrar informs the instructor of the names of all students who are officially registered and have paid all required tuition and fees in each class. It is recommended that the student confirm with the instructor that his/her registration has been properly recorded within the first week of classes. It is the student's responsibility during his/her enrolled semester that he/she is attending the correct courses for which he/she is registered. A student may not attend classes in which he/she is not registered in the above manner unless the student has been approved to audit the course. Students are not permitted to sit in classes without being officially enrolled or auditing the course.

Dates of Early, Regular and Late Registration

Dates and time limits for schedule changes can be found in the online Comet Calendar and the Academic Calendar. These online resources contains important dates and information that will be useful throughout the semester. Failure to consult and be aware of these dates and procedures does not excuse a student from information or regulations contained therein. The university reserves the right to make changes to both calendars at any time.

Schedule Changes: Dropping, Adding and Withdrawing From Courses

Dates and time limits for schedule changes can be found in the online Comet Calendar and the Academic Calendar. All dates and formal procedures for registration and late registration are listed: www.utdallas.edu/student/registrar/lookup/dropadd.html.
A new student seeking to drop or add courses to his/her schedule must obtain permission from his/her graduate advisor in the degree program. Drop/Add forms may be obtained from advising offices.

Drop/Adds may not be processed after Census Day. Any drops prior to and including Census Day will not show on the student's transcript. Withdrawals after Census Day will show as a W (withdraw) on the transcript.

After the last day indicated in the online Comet Calendar and the Academic Calendar for a graduate student to withdraw, the course withdrawal will be approved only on a documented emergency basis for reasons extrinsic to curricula matters. To secure such approval, the student must complete a Drop/Add form and obtain the signature of the instructor certifying that the student was passing at the time of the proposed withdrawal. The student should then submit the Drop/Add form and a written petition detailing the nature of the emergency with written documentation from employer or doctor, as appropriate, to the graduate advisor and then to the Dean of Graduate Studies. If the petition is approved, the grade assigned by the instructor on the Drop/Add form will determine the grade which will appear on the student's transcript: a passing grade will appear as a W on the transcript; a failing grade will appear as an F. Students who cease to attend classes without securing approval in the manner prescribed above will receive the grade of F for that course. Courses may not be dropped after the last day of classes in the semester.

A student who habitually withdraws from a significant fraction of his/her schedules may lose the right to withdraw or may be dismissed from the university for failure to make adequate academic progress.

Any student on a Teaching/Research Assistantship wishing to drop a course at any time during the semester must secure the signature of the academic dean of his/her school and the Dean of Graduate Studies.

The Office of the Registrar, upon recommendation of the instructor and with the approval of the Dean of Graduate Studies, may require a student to drop a course for which the student has not satisfied the prerequisite.

UT Dallas operates multiple sessions with different academic calendar and Census dates. If a student registers in a shorter session, it is the student's responsibility to review the online Comet Calendar and deadlines that affect the drop/add/withdrawal procedures. The same holds true for the summer session.

Paying Fees as a Part of Registration

A student is not registered or eligible to attend classes until all tuition and fees have been paid in full or until the student has arranged installment payments with the Bursar by the payment deadline in the online Comet Calendar or the Academic Calendar. If a student's registration has been canceled for nonpayment, a reinstatement fee and a late fee will be charged (see online course schedule for current fees). A student who has not completed the payment of all tuition and fees by the end of the semester will be subject to one or more of the following actions at the university's option:

- bar against readmission at this institution,
- withholding of grades, degree and official transcript,
- all penalties and actions authorized by law.

Leave of Absence

A student who formally requests and is granted a leave of absence will be exempt from the readmission requirements. A request for a leave of absence must be made through the department or program to the Dean
of Graduate Studies and is recorded on the student's academic record by the Office of the Registrar. The leave of absence does not alter the time limits placed on graduate degrees.

Withdrawal (Resignation) from the University

A student who wishes to withdraw entirely from the university must complete the proper withdrawal form and procedures in the Office of the Registrar. The grade assigned by the instructor on the withdrawal form will determine the grade which will appear on the student's transcript:

- a passing grade will appear as a W on the transcript
- a failing grade will appear as an F

Withdrawal after the final drop date requires the same procedures as listed in the previous paragraphs on Schedule Changes.

Readmission

A student in good academic standing who finds it necessary to suspend his/her academic activities or transfer to another institution for the duration of three long semesters (not including a summer session) must reapply to the program of intended degree. In that circumstance, a new review will be made to determine eligibility of enrollment under current standards for admission. An official transcript mailed directly by each institution attended after leaving The University of Texas at Dallas must be sent to the Office of Admission and Enrollment Services, including any transcript of attendance at another university during a summer session. If accepted, the readmitted student will be bound by all conditions of the catalog in force at the time of readmission, and changes become effective on the date of enactment.

Beginning in the Fall 2009 semester, if a student was previously enrolled at UT Dallas, the student may be eligible to return to the university without reapplying through admissions.

To be eligible for the new policy, the student must have previously enrolled for at least one semester. A student is considered enrolled if he/she was enrolled in one or more courses after the Census Day for a semester. The student also must have left the university in good standing and must be in good standing with all institutions of higher education he/she formerly attended.

If the student qualifies under the readmission policy, the student must submit a re-entry form and return it to the Office of the Registrar 10 days before the first day of class. Students may access the re-entry form by going to http://www.utdallas.edu/registrar/files/Re-entryForm_001.pdf. If there are questions regarding the re-entry process, contact the Registrar’s Office, 972-883-2342 or by email, records@utdallas.edu.

The following guidelines describe whether or not a student must reapply or submit a re-entry form:

- Previously graduate degree-seeking, returning as graduate degree-seeking

If returning to different programs and/or different plans, the student must reapply and waive fee unless filing premium application
If returning to the same program, same plan, and was in good standing, the student must submit re-entry form
\[\text{Previous graduate non-degree seeking, returning as graduate degree-seeking}\]
\[\text{The student must reapply and pay fee(s)}\]

- Previously graduate degree-seeking, returning as graduate non-degree seeking

If in good standing, must submit re-entry form

- Previously graduate taking undergraduate courses (GRU), coming back as graduate taking undergraduate courses (GRU)

Must submit re-entry form

If the student qualifies under the readmission policy, the student must submit a re-entry form and return it to the office of the registrar 10 days before the first day of class.

In addition, the student must submit official transcripts for all institutions of higher education he/she attended after last attending UT Dallas to the following address:

The Office of Registrar
The University of Texas at Dallas
800 West Campbell Road
Richardson, TX 75080-3021

If official transcripts are not received by Census Day, the student will be automatically dropped from any currently enrolled courses. The readmitted student may be required to submit bacterial meningitis vaccination necessary forms before being allowed to register.

**Undergraduate Registration for Graduate Courses**

Upper-division undergraduates, who are classified as seniors and core complete, may petition the Undergraduate Associate Dean and Graduate Advisor to take graduate courses by completing the appropriate form available in the student’s academic advising office. If approved, these graduate courses can be applied toward satisfying undergraduate degree requirements or can be designated for future application toward a graduate degree requirement at UT Dallas. The student must declare at the time of registration for the course, on a form provided by the Undergraduate Associate Dean, how each approved course is to be applied. Since applied, the options cannot be changed.

**Graduate Courses Applied Toward an Undergraduate Degree**

Up to 12 semester credit hours of graduate work taken as an undergraduate may be used for completing any baccalaureate degree at The University of Texas at Dallas. Pass/Fail grading for graduate courses will be permitted only in this category but must be approved by the instructor prior to the start of class.

**Graduate Courses for Possible Future Use as**
Graduate Credit

Undergraduates may take up to 12 semester credit hours of graduate courses to reserve for possible application toward a graduate degree. To register, undergraduate students must obtain permission from the course instructor and from the graduate advisor of the program in which the course is offered. Such courses with an earned grade of ‘B’ or better will be eligible for application to the student's graduate record when the student is admitted to a graduate program. These courses will not apply to the student's undergraduate degree and will not affect the student's undergraduate GPA.

Graduate Courses Taken in Fast Track Options

Upper-division undergraduates, who are classified as seniors and core complete, may petition their Associate Dean to take graduate courses in the Fast Track program, and must have completed 90 semester credit hours and core complete. A number of programs at The University of Texas at Dallas offer an accelerated Fast Track option that allows qualified senior level undergraduate students to take specified master’s level coursework.

A Fast Track undergraduate student, with the permission of the student's Undergraduate Associate Dean and the graduate advisor of the intended graduate program, follows the program requirements regarding graduate courses and maximum graduate semester credit hours applicable to a graduate degree (not greater than 15 semester credit hours). The graduate semester credit hours may be used to complete the baccalaureate degree.

The grade earned in the graduate coursework must be a ‘B’ (3.000) or better to be applied to the master's degree requirements. A student may only Fast Track into ONE graduate Master's program.

Cooperative Arrangements

Concurrent Enrollment at Other Public Institutions of Higher Education

A student should obtain prior written approval from their school to ensure that a course taken at another institution while the student is concurrently registered at The University of Texas at Dallas will count toward the student's degree.

In accordance to Texas Education Code, Section 54.011, when a student registers at more than one public institution of higher education at the same time, the student shall pay the full tuition charge to the first institution at which the student is registered.

If, at the time of registration, a student can produce evidence of having already paid his or her tuition at another public institution of higher education in Texas, the student should present a copy of the fee receipt from that institution to the Office of the Registrar. For more information about fees for students enrolled concurrently at two institutions, contact the Office of the Registrar at http://www.utdallas.edu/bursar/custsvc/contact.
The University of Texas System

A concurrent enrollment agreement is in place between The University of Texas at Dallas, The University of Texas at Arlington, and The University of Texas Southwestern Medical Center. This agreement allows any student enrolled concurrently between these institutions to receive a waiver of certain fees. Students must be enrolled in at least one semester credit hour at their home institution to be considered concurrently enrolled. Students must apply for concurrent enrollment with The Office of the Registrar in the Student Services Building, first floor customer service area.

Visiting Student Program

The UT System Visiting Student Program is designed to allow a graduate or professional student enrolled in an institution of the UT System to take courses or engage in research at another institution within the System during a regular semester or summer session. A UT Dallas graduate student, who has been admitted to a degree program at UT Dallas, must have completed a minimum of 15 semester credit hours at UT Dallas and be in academic good standing in order to be eligible to participate in the visiting student program. Courses to be taken under this visiting student program must have prior approval of the student’s degree program advisor. An approved leave of Absence also is required. A visiting student registers and pays tuition and required fees at his/her home institution and is given normal privileges associated with available student services at the exchange institution. A visiting student is subject to the rules and regulations of both institutions. Each UT System institution has designated an individual to coordinate and approve graduate or professional visiting students. Interested UT Dallas students should contact the Office of the Dean of Graduate Studies for additional information, 972-883-2234, or go to the Office of Graduate Studies website. A student at other UT System schools wishing to take courses at UT Dallas under this visiting student program should contact and work through the graduate dean at the home institution.

Texas A&M University System

A cooperative arrangement between The University of Texas System and the Texas A&M University System allows a graduate student at one institution to use unique facilities or courses at the other institution with a minimum of administrative paperwork. The graduate student registers and pays tuition and fees at the home institution.

Schedule Changes: Dropping, Adding and Withdrawing From Courses

Dates and time limits for schedule changes can be found in the online Comet Calendar and the Academic Calendar.

A new student seeking to drop or add courses to his/her schedule must obtain permission from his/her graduate advisor in the degree program. Drop/Add forms may be obtained from advising offices.

Drop/Adds may not be processed after Census Day. Any drops prior to and including Census Day will not show on the student's transcript. Withdrawals after Census Day will show as a W (withdraw) on the transcript.

After the last day indicated in the online Comet Calendar and the Academic Calendar for a graduate student to withdraw, the course withdrawal will be approved only on a documented emergency basis for reasons extrinsic to curricula matters. To secure such approval, the student must complete a Drop/Add form and obtain the signature of the instructor certifying that the student was passing at the time of the proposed withdrawal. The...
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A student who habitually withdraws from a significant fraction of his/her schedules may lose the right to withdraw or may be dismissed from the university for failure to make adequate academic progress.

Any student on a Teaching/Research Assistantship wishing to drop a course at any time during the semester must secure the signature of the Dean of Graduate Studies.

The Office of the Registrar, upon recommendation of the instructor and with the approval of the Dean of Graduate Studies, may require a student to drop a course for which the student has not satisfied the prerequisite.

UT Dallas operates multiple sessions with different academic calendar and Census dates. If a student registers in a shorter session, it is the student's responsibility to review the online Comet Calendar and deadlines that affect the drop/add/withdrawal procedures. The same holds true for the summer session.

Withdrawal (Resignation) from the University

A student who wishes to withdraw entirely from the university must complete the proper withdrawal form and procedures in the Office of the Registrar. The grade assigned by the instructor on the withdrawal form will determine the grade which will appear on the student's transcript:

- a passing grade will appear as a W on the transcript
- a failing grade will appear as an F

Withdrawal after the final drop date requires the same procedures as listed in the previous paragraphs on Schedule Changes.

Course Policies

Auditing Courses

Auditing allows a student to observe the instruction of a course without earning credit. Computer Science and Engineering courses, Geoscience courses, Physical Education courses, Creative Writing courses, Foreign language courses, online courses, and any course that charges a lab fee may not be audited. Participation and discussion is at the discretion of the instructor. Auditing grants only the privilege of hearing and observing and does not grant credit or access to online course tools.

Beginning the first day of classes through Census Day, a student may obtain an audit form in the Office of the Registrar located on the first floor of the Student Services building. Please consult http://www.utdallas.edu/student/registrar/faq.html for more detailed audit procedures and associated non-refundable fees.

All applicants for auditing graduate courses should have documentation indicating the completion of a baccalaureate degree. Exceptions to this policy may be granted only upon application to the Dean of Graduate
Studies. Under no circumstances will a student be allowed to audit Studio/Ensemble courses.

Course Numbering System

All courses are identified by a four-digit number preceded by the name (or abbreviation) of the program. Courses beginning with a number 5 or greater are graduate courses. The second digit of the course number identifies the semester credit hour value. Courses with a V in the second position are variable semester credit hour courses.

The number of lecture hours per week and the number of laboratory hours are given in brackets following the course description: (2-4) means two hours of lecture and four hours of laboratory each week.

For additional information on semester credit hours, see policy.utdallas.edu/utdpp1090.

Course Offerings

UT Dallas offers many courses in a wide range of subject disciplines. Course offerings may include some online or blended (online and face-to-face) courses, which are listed in the CourseBook schedule. There are also additional offerings through the UT Online Consortium. However, the University does not offer correspondence courses.

Frequency of Course Offerings

At the end of each course description, a frequency of course offering code is available.

- S = course offered at least once each long semester
- Y = course offered at least once a year
- T = course offered at least once every two years
- R = course offered based on student interest and instructor availability

Course Load

During each long semester, the normal course load for a full-time graduate student including those supported as a Teaching or Research Assistant is 9 semester credit hours.

The maximum allowed graduate course load in any given semester is 18 semester credit hours.

Registration in excess of this maximum must have the recommendation of the graduate advisor and approval of the Dean of Graduate Studies and will be permitted only under exceptional circumstances.

Students who are appointed as Teaching or Research Assistants should consult with the graduate advisor or supervisor about their combined course and work load each semester.

For certification purposes, UT Dallas uses the following criteria for graduate students:

- Fall/Spring Full-time status - 9 semester credit hours
- Fall/Spring Half-time status - 5 semester credit hours
- Summer Full-time status - 6 semester credit hours
Repeated Course Work

A student who wishes to repeat a course must submit a Repeated Course Adjustment form to the Graduate Dean.

Up to three graduate courses may be repeated. However, no graduate course may be repeated more than once. When a course is repeated, both grades will remain in the student's record and will be included in any transcript. The higher grade will be used in computing the grade point average (GPA). In other instances, students may repeat the course to improve their grades. Courses transferred for credit to UT Dallas from another institution of higher education may not be repeated for additional credit.

Before repeating any course, students should contact their academic advisor to determine the application of such course credit toward graduation. Students are also advised to check with the Office of Financial Aid to determine how and if grades earned in repeated coursework impact their financial aid eligibility status.

The University of Texas at Dallas's policy for repeating coursework is stated below.

Repeating Coursework

There are certain courses in which students may repeat the course(s) for credit and may satisfy degree requirements. In other instances, students may repeat the course to improve their grades.

Courses transferred for credit to UT Dallas from another institution of higher education may not be repeated for additional credit.

Before repeating any course, students should contact their academic advisor to determine the application of such course credit toward graduation. Students are also advised to check with the Office of Financial Aid to determine how and if grades earned in repeated coursework impact their financial aid eligibility status.

The University of Texas at Dallas's policy for repeating coursework is stated below.

Taking Unlimited Repeatable Courses

There are certain courses that students may repeat the course(s) for credit. These courses in the catalog will have the statement of "may be repeated for credit" and considered non-duplicated courses. All semester credit hours and grade points earned from each of these courses count in a student's earned hours and cumulative grade point average (GPA). Students should review their degree program for application towards degree requirements.

Taking Limited Repeatable Courses

There are certain courses that students may repeat for credit with a limit on repeatability. For example, courses with the course description that states "may be repeated for credit (9 semester credit hours maximum)." For limited repeatable courses, a student is limited to repeating the course to the maximum hours stated in the course description. The limited semester credit hours and grade points earned from each of these courses count in a student's earned hours and cumulative GPA. Students should review their degree program for application towards degree requirements. The limited semester credit hours and grade points earned from each of these courses will not count in a student's earned hours, cumulative GPA, and degree requirements.

Repeating Courses to Improve Grades

Regardless of the number of times a course is repeated, any single course can contribute only once to the number of semester credit hours required for graduation. A limited number of courses, such as independent study courses, may be repeated for credit. See Taking Repeatable Courses. General Policy for All Students.
Graduate Students may repeat the course to improve their grades; however, if the course is not designated as a repeatable course, then any single course can contribute only once to the number of semester credit hours required for graduation.

Graduate Students

A graduate student who wishes to repeat a course must submit a Repeated Course Adjustment form to the Graduate Dean.

Up to three graduate courses may be repeated. However, no graduate course may be repeated more than once. When a course is repeated, both grades will remain in the graduate student's record and will be included in the graduate student's transcript. The higher grade will be used in computing the GPA for purposes of graduation.

Final Examinations

When a final examination is given in a course, it must be given at the time scheduled by the Office of the Registrar during the final examination period. A final examination must not last more than 2 hours and 45 minutes. Students for whom three or more final examinations are scheduled in one day may petition to take the additional final examinations on different days.

Grades and Grade Point Average

Grade points are computed by multiplying the points for each grade by the number of semester credit hours; for example, 4.000 (A) x 3 (semester credit hours) = 12 grade points. A student's grade point average (GPA) is determined by dividing the total number of grade points earned by the number of semester credit hours for which a grade other than I or P is received. All GPAs, term and cumulative, are rounded from the fourth to the third digit, and three decimal places are displayed in this catalog, Galaxy, unofficial and official transcripts.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
<th>Grade Points per Semester Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4.000</td>
</tr>
<tr>
<td>A-</td>
<td></td>
<td>3.670</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3.000</td>
</tr>
<tr>
<td>B-</td>
<td></td>
<td>2.670</td>
</tr>
<tr>
<td>C</td>
<td>Fair</td>
<td>2.000</td>
</tr>
<tr>
<td>C-</td>
<td></td>
<td>1.000</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete *</td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>Pass *</td>
<td></td>
</tr>
</tbody>
</table>

The following grade scale is used in graduate coursework at the university:

Comment [MV15]: This grade scale now matches the three decimal places set up in Orion.

Comment [MV16]: Removed the A+ row since it is not used on the graduate level, 3-28-15 email from Cunningham/Wilson

Comment [MV17]: This scale will be removed.
Grade of I: Incomplete

An incomplete grade of I may be assigned, at the discretion of the instructor, for work unavoidably missed at the semester's end. The student must obtain a Grade of Incomplete/Documentation Form in the office of the student's degree program. The instructor assigning an incomplete grade must furnish a description of work required to complete the course. An incomplete must be completed eight (8) weeks from the first day of the subsequent long semester. The completed form must be signed by both the student and the instructor, and the appropriate Associate Dean, Graduate Advisor, or Department/Program Head, and must be retained with the student's academic record. If the required work to complete the course and to remove the grade of I is not submitted by the specified deadline, the grade of I is changed automatically to an F. Extension beyond the specified limit can be made only with the permission of the Dean of Graduate Studies. A student may not re-enroll in a course in which an I has already been assigned.

The instructor alone will be responsible for determining whether the requirements for completion are met and for assigning the grade in the course. If the instructor who assigned the incomplete is no longer associated with the university when the work is completed, the head of the department or program may assign a committee of appropriate faculty to evaluate the material and/or obtain any other information that may be required to assign the grade in the course. Upon completion of the evaluation of the required work, the symbol I must be converted into a letter grade (A through F or P) by the instructor, head of the department or program, or Graduate Advisor as indicated above.

Grade Changes

Faculty Initiated

After a final grade has been recorded by the Office of the Registrar, faculty may change grades only to correct a clerical error or replace a grade of incomplete. A faculty-initiated change of a final grade requires the written approval of the instructor, the department or program head, Associate Dean of Graduate Studies, and the School Dean. Such grade changes must be submitted by the end of the eighth week of the long semester after the grade was awarded. Any grade change initiated after this deadline requires the written approval of the instructor, the department or program head, the School Dean, and the Dean of Graduate Studies.
Student Request

A student has the right to request a review of the grades received in any class.

The only grounds for considering a grade to be incorrect are either clerical error or that the grade is arbitrary or capricious. Examples of clerical error would include, but are not limited to, a mistake in adding component grades, a mistake in recording grades, or attributing a paper or examination to the wrong student. Arbitrary or capricious means that the grade cannot be considered reasonable given the material of the course, the overall performance of the class, and the individual performance of the student. The university assumes that coursework is best evaluated by the instructor in the immediate context of the course activity. Requests for reconsideration must show with clear and convincing evidence why this assumption should be set aside.

If a student believes he or she has been assigned a grade on the basis of a clerical error or that the grade is arbitrary or capricious, the student should first seek to discuss the grade with the instructor. If this does not lead to satisfactory understanding, the student may file a formal appeal following the procedures described for academic grievances in the Rules, Regulations, and Statutory Requirements Section C (see Academic Grievances, Appendix I).

Students must petition for a grade review by the end of the eighth week of the long semester after the grade was awarded. The request must be submitted in writing to the appropriate faculty member, who then has the remainder of that semester to take action.

Pass/Fail Grading

The pass/fail option is intended to encourage a student to take courses in topics outside his/her major area where the student would be competing with a significant number of students who are majoring in these outside areas. Subject to the constraints stated below, a student may elect to take certain courses either by letter grade (A, B, C, F) or pass/fail grade (P/F). The pass/fail option should be exercised at the time of registration. In any courses in which letter grades are given to one or more students, any student wishing to take the course on a pass/fail basis must obtain the approval of the instructor and his/her graduate advisor on the Pass/Fail form. This completed form must be submitted to the Office of the Registrar no later than Census Day. No change of grade designation from grade to pass/fail or pass/fail to grade can be made after the Census Day designated in the online Comet Calendar and the Academic Calendar.

A student may not elect to take the following types of courses on a pass/fail basis:

- major core courses and their prerequisites required for the student’s degree
- elective courses in the student’s major area
- more than 20 percent of the semester credit hours earned at UT Dallas for any master’s degree
  (excluding casebook, internship, practicum, independent study, research, reading, thesis or dissertation requirements)

Only pass/fail grades are given for independent study, research, and reading courses, and for thesis and dissertation.

Military Service Activation Interruption of Education

From time to time, students who are reservists or members of the National Guard may be called to active duty.
in the U.S. military after a semester has begun. These students have several options for the treatment of their enrollment and tuition.

Option to Remain Enrolled and Complete Coursework Following Brief Military Service

Under certain circumstances, a student who is required to participate in active military service is excused from scheduled classes or other required activities and will be allowed to complete an assignment or exam within a reasonable time after the absence. The excused absence is permitted only if the student will miss no more than 25% of the total number of class meetings or the contact hour equivalent (not including the final examination period) for the specific course or courses in which the student is enrolled at the beginning of the period of active military service.

Option to Withdraw, Receive Incomplete Grade, or Receive Final Grade

A reservist or member of the National Guard called to active duty in the U.S. military who receives activation orders after the start of a semester has four other options for the treatment of tuition and fees paid to The University of Texas at Dallas and transcript notation. In accordance with Texas statutes and Coordinating Board rules, the student may request any one of the following:

1. The Office of the Registrar will process the withdrawal of the student from all classes and record "Withdrawn-Called to Military Duty" (WM) on the student's transcript and the Bursar Office shall refund the tuition and fees paid by the student for the semester in which the student withdraws; or

2. The Office of the Registrar may grant a student who is eligible under UT Dallas guidelines an incomplete grade (see "Incomplete Grades" section of the catalog for eligibility) in all courses by designating "Incomplete-Called to Military Duty" (XM) on the student's transcript. Please note: XM grades must be resolved within one year from the "release from active duty" date on military orders; or

3. The student may petition the instructor to assign an appropriate final grade or credit for the course after satisfactorily completing a substantial amount of coursework and having demonstrated sufficient mastery of the course material; or

4. If the student withdraws before the Census Day of the semester in which the student is called to active military duty and the student requests Military Leave, courses will be dropped. Courses dropped on or before Census Day will not appear on the student's transcript.

NOTE: There are no provisions for refunds for active duty service members who are deployed as a result of military orders or for individuals who choose to enter the service. The provisions listed above apply only to reservists or members of the National Guard called to active duty.

Readmission Following Military Service

The University of Texas at Dallas will grant readmission to any veteran who was previously offered admission in a graduate program at the university, but could not enroll or had to withdraw due to deployment as a member of the United States Armed Forces or the Texas National Guard (not including routine Texas National Guard training). The graduate program must grant credit for previous coursework and accept standardized test scores regardless of the time since the veteran was initially offered admission.
If the student was enrolled in classes at the university when called to active duty in the United States Armed Forces or the Texas National Guard (not including routine Texas National Guard training), the student shall be readmitted without reapplication or payment of additional application fees within one year of the release from active duty date on the student's military orders. An eligible student will retain prior academic standing, course credits awarded and financial eligibility if the student meets current eligibility requirements other than continuous enrollment or other timing requirements.

Change of Address, Email, or Name

Students may complete a change of address online through Galaxy. Students must maintain home and mail addresses and telephone numbers using Galaxy. Although the UT Dallas administration and faculty primarily utilize UT Dallas email for communications, UT Dallas sends certain academic and financial communications through the mail. Therefore, if a student fails to maintain a current address, the student will be responsible for correspondence that is undeliverable.

Students may complete a change of personal email online through Galaxy. A student's UT Dallas email address is the official method of communication between faculty, administration, and the student. A UT Dallas student must maintain his/her UT Dallas email account at all times. Therefore, if a student fails to maintain their UT Dallas email account, the student will be responsible for correspondence that is undeliverable.

Students may complete a Name Change Request form at http://www.utdallas.edu/student/registrar/forms and submit in person to the Office of the Registrar in the Student Services Building, first floor customer service area. A copy of the student's driver's license, a marriage certificate, or court order used as proof of the name change must accompany the name change request.

Criminal Background Check

Certain programs require students to submit to and satisfactorily complete a background check review as a condition of admission and/or participation in education experiences. Students who refuse to submit to a background check or who do not pass the background check may be dismissed from the program. The student is responsible for the costs associated with the criminal background check.

Making a False Alarm or Report Involving a Public or Private Institution of Higher Education

A person commits an offense under Section 42.06, Texas Penal Code, if he or she knowingly initiates, communicates or circulates a report of a present, past, or future bombing, fire, offense, or other emergency that he knows is false or baseless and that would ordinarily: (1) cause action by an official or volunteer agency organized to deal with emergencies; (2) place a person in fear of imminent serious bodily injury; or (3) prevent or interrupt the occupation of a building, room, place of assembly, place to which the public has access, or aircraft, automobile, or other mode of conveyance. The offense under Section 42.06, Texas Penal Code, of making such a false alarm or report involving a public or private institution of higher education is a state jail felony. An individual adjudged guilty of a state jail felony shall be punished by confinement in a state jail for any term of not more than two years or less than 180 days and, in addition to confinement, an individual adjudged guilty of a state jail felony may be punished by a fine not to exceed $10,000.
Religious Holy Days

The University of Texas at Dallas will excuse a student from class or other required activities, including examinations, for the travel to and observance of a religious holy day for a religion whose places of worship are exempt from property tax under Section 11.20, Tax Code, Texas Code Annotated.

The student is encouraged to notify the instructor or activity sponsor as soon as possible regarding the absence, preferably in advance of the assignment.

The student, so excused, will be allowed to take the exam or complete the assignment within a reasonable time after the absence: a period equal to the length of the absence, up to a maximum of one week. A student who notifies the instructor and completes any missed exam or assignment may not be penalized for the absence. A student who fails to complete the exam or assignment within the prescribed period may receive a failing grade for that exam or assignment.

If a student or an instructor disagrees about the nature of the absence, i.e., for the purpose of observing a religious holy day, or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the President of UT Dallas, or his or her designee. The chief executive officer or designee must take into account the legislative intent of TEC 51.911(b), and the student and instructor will abide by the decision of the chief executive officer or designee.
Student Travel Policy

The University of Texas at Dallas promotes safe travel by students to and from activities or events within the scope of the university's mission. Before traveling, it is beneficial to review the travel policy about domestic and foreign travel, emergency procedures, insurance, and liability; and to obtain authorization by completing travel authorization forms and other related forms at least 5 working days prior to travel. Procedures also apply to faculty, staff, and students who transport students off campus on any university-organized and university-sponsored travel business or related travel activities for student organizations.

Student Travel to International Locations

Students traveling abroad for UT Dallas credit, for an approved Education Abroad program, must follow the Education Abroad approval process for travel prior to departure. For more information, visit utdallas.edu/ea. Students traveling internationally on University business but not for credit, such as conferences, workshops, sport competitions, etc. must submit an international travel authorization request and obtain institutional authorization prior to departure. For more information, go to utdallas.edu/rs.

With these approvals, the traveler receives coverage in related international insurance plans and access to university international risk and safety services.

Detailed information regarding this policy, in accordance to Texas Education Code, Section 51.950, can be accessed at the UT Dallas Policy Navigator, policy.utdallas.edu/utdbp3023, and at www.utdallas.edu/administration/insurance/travel.
International Travel, Policies and Services

Students representing UT Dallas through participation in a UT Dallas Education Abroad program, or for international events such as conferences, workshops, or sports competitions, are required to complete international travel procedures and receive approvals prior to travel. Travel to high risk regions requires review and approval through the UT Dallas International Oversight Committee (IOC). With appropriate approvals, the traveler receives coverage in related international insurance plans, and access to university risk and safety services. The International Center Risk and Safety Office facilitates enrollment in the international health insurance plan, provides risk assessments through the high risk regions tool and world status reports, and provides programs on international risk mitigation through workshops and facilitated conversations with safety experts.

International Risk and Safety is located in the Student Services Building, SSB 3.400. More information can be found at utdallas.edu/rs or by calling 972-883-4189.
Tuition and Required Fees

As a state-supported institution of higher education, The University of Texas at Dallas is required to comply with all state laws and approval by the UT System Board of Regents in the assessment and collection of tuition, fees, and deposits. The tuition, fees, and deposits listed herein are subject to change by legislative or regental action and changes become effective on the date enacted. Pursuant to Chapter 54, *Texas Education Code*, each student who registers is required to pay tuition and fees appropriate to the student's residence classification and according to the number of semester credit hours for which he or she has registered.

In accordance with state laws, a student is not entitled to enter a class or laboratory until registered and all tuition, fees, and deposits have been paid.

The University of Texas at Dallas utilizes a consolidated tuition rate, which is capped at 15 semester credit hours for all students. The consolidated tuition and fee rates cover all academic program costs; including tuition, mandatory fees, and most of the college and course incidental fees. Additional fees that will be charged separately are: field trip fees, supplemental designated tuition fees, and distance education fees. The Tuition and Fee Tables can be found on the Bursar Office website.

Residency Classification for Tuition Purposes

Residency classification for tuition purposes at Texas colleges or universities is in accordance with Title 19, Part 1, Chapter 21, Subchapter B of the *Texas Administrative Code* and the rules of the Texas Higher Education Coordinating Board for determining residence status. A person classified as a nonresident for tuition purposes may qualify, under certain exceptions specified in the rules, for resident tuition rates and other charges, while he or she continues to be classified as a nonresident for tuition purposes. Please consult these websites concerning residency classification for tuition purposes provided by the State are *Texas Administrative Code* website and *www.collegeforalltexans.com*. Please consult The University of Texas at Dallas’ website for residency information and procedures, *www.utdallas.edu/residency*.

It is the student's responsibility to establish, prior to registration, the correct residence classification through the Office of the Registrar. Likewise, any student wishing to request a change of residence status for tuition purposes should do so through the Office of the Registrar. This will require completion of a residency questionnaire and the provision of documents to support the claim of Texas residency, prior to the census day. The student will be charged tuition based on the residency in the student system until official changes have been made. Rules and regulations for determining residency are found at *www.utdallas.edu/residency*. Final authority of appeal for review of residence decisions rests with the Office of the Registrar.

For residents of Oklahoma, tuition is the Texas resident rate shown plus thirty dollars ($30.00) per semester credit hour. Oklahoma residents must apply for this tuition waiver each semester through the Office of Financial Aid.

Guaranteed Tuition Plan

Beginning fall 2007, The University of Texas at Dallas introduced the Guaranteed Tuition Plan. The Guaranteed Tuition Plan is designed to help new students and their families better plan for the cost of a
college education, while allowing the university to maintain the quality of its academic programs. Under the terms of the plan, graduate students enrolling at UT Dallas for the first time for the fall 2015, spring 2016 and summer 2016 semesters are charged for tuition and mandatory fees fixed at the fall 2015 rates for all succeeding semesters through the summer of 2019. The charges per semester credit hour for tuition and mandatory fees at UT Dallas depend on the number of semester credit hours for which a student enrolls. Other user fees for courses and services including, for example, parking, and housing fees, are subject to change.

More information on the Guaranteed Tuition Plan can be found at [http://www.utdallas.edu/tuition](http://www.utdallas.edu/tuition).

In the event a student is unable to complete their degree requirements in four years, that student will be advanced to the subsequent Guaranteed Tuition rate. Students enrolling after three consecutive semesters have elapsed will be placed in the Guaranteed Tuition Rate plan applicable to all new incoming students.

Students who graduate from UT Dallas before their rate plan expires may retain their current Guaranteed Tuition Rate as a graduate student. Additionally, if the student maintains consecutive enrollment and reaches the end of their Guaranteed Tuition Rate period, they will be moved to the next subsequent Guaranteed Tuition Rate plan. Students enrolling after three consecutive semesters have elapsed will be placed in the Guaranteed Tuition Rate plan applicable to all new incoming students.

**Tuition Installment Payments**

A student enrolled a full term fall, spring or eleven-week summer semesters may elect to pay tuition and fees under the installment payment plan (Section 54.007, Texas Education Code). The installment plan allows the student to pay their tuition and fee balance in three equal payments. A $25.00 fee per semester will be assessed to each student who elects to pay by installments. Additionally, a late payment fee of $30.00 for delinquent payment will be assessed each time an installment is not paid by the date it is due. If the installment is not paid in full by the third due date, it begins accruing interest at the rate of 10% per year until it is paid in full.

**Nonpayment of Debt**

Students must pay by the published deadline to avoid late fees and/or possible dropping of classes. Students should NOT expect classes to be automatically dropped for nonpayment. Please be advised it is the student's responsibility to confirm that he/she has been dropped from all classes for nonpayment to avoid being assessed late fees or penalties.

Students who have not paid in full or enrolled in a payment plan by the posted payment deadline may have their registration cancelled. If a student’s registration is canceled for nonpayment, and that student wishes to reinstate registration, a reinstatement fee in addition to any late fees and tuition and fees will be charged. See the online fee schedules at [www.utdallas.edu/bursar/bursement](http://www.utdallas.edu/bursar/bursement) for fees associated with course reinstatement. No student will be reinstated in a closed course.

A student who fails to provide full payment of loans, tuition, and fees, including late fees assessed, to the university when the payments are due is subject to one or more of the following actions at the university's option:

- Classes may be cancelled;
Bar against registration and/or readmission to the institution;  
Withholding of grades, diploma, and official transcript; and  
All penalties and collection actions authorized by law.

Students may refer to Academic Calendar or the Tuition and Fees Schedule for information regarding payment and refund deadlines.

Tuition and Fee Exemptions/Waivers

As a state-sponsored institution of higher education in Texas, The University of Texas at Dallas is authorized to award tuition and fee exemptions and/or waivers to students who qualify based on statutory criteria. Effective Fall 2014, in order to continue to qualify for many of the tuition and fee exemptions or waivers, students must maintain a minimum grade point average for making satisfactory academic progress at The University of Texas at Dallas. In addition, in order to continue to qualify for most tuition and fee exemptions, graduate students must not complete an excessive number of semester credit hours (Texas Education Code, Section 54.012). See http://www.utdallas.edu/student/finaid/SAP.htm for details regarding the satisfactory academic progress criteria and policies.

The following list of exemptions and waivers may be available to UT Dallas students:¹

- Academic Common Market Waiver
- Adopted Students Formerly in Foster or Other Residential Care
- Blind/Deaf Student Exemption
- Bordering States Waiver
- Children of Disabled or Deceased Firemen, Peace Officers, Game Wardens, and Employees of Correctional Institutions
- Children of U.S. Military who are Missing in Action or Prisoners of War (MIA/POWs)
- Competitive Scholarship Waiver
- Concurrent Enrollment Waiver

¹ Moved down [1]: Tuition for Excessive Doctoral Hours
For a doctoral student enrolling for the first time in Fall 1999 or after, Section 54.012, Texas Education Code, establishes a maximum number of doctoral semester credit hours that a doctoral student may attempt while paying tuition at the rate provided for Texas residents. Attempted semester credit hours include all doctoral semester credit hours taken at a Texas institution of higher education for which a student was registered as of Census Day, including, but not limited to, courses that have been repeated, failed, and courses from which the student withdrew. The maximum is 99 doctoral semester credit hours. A student who exceeds the maximum semester credit hours may be charged tuition at the rate charged nonresident doctoral students. The higher tuition rate applies only to those doctoral semester credit hours that exceed 99 semester credit hours.
• Distance Learning or Off-Campus Courses
• Economic Development and Diversification Waiver
• Exemption for Highest Ranking High School Graduate
• Exemption for Peace Officers Disabled in the Line of Duty
• Exemption for Peace Officers Enrolled in Law Enforcement or Criminal Justice Courses
• Exemption for Students under Conservatorship of the Department of Family and Protective Services
• Exemption for the Surviving Spouse and Minor Children of Certain Deceased Public Servants
• Exemption Program for Clinical Preceptors and Their Children
• Firefighters Enrolled in Fire Science Courses
• Good Neighbor Program
• Hazelwood Exemption
• Mexican Citizens with Financial Need-Border Nations Waiver
• Military After Assignment in Texas
• Military Assigned to Duty in Texas
• Military Honorably Discharged, Separated or Retired Veterans who Move to Texas
• Military: Member, Spouse or Child who Remains Continuously Enrolled in Higher Education in Texas
• Military: NATO Forces
• Military Personnel and Dependents
• Military Persons Eligible for Veterans Educational Benefits, Their Spouses and Children who Move to Texas
• Military Spouse and Dependents who Previously Lived in Texas
• Military Survivors
• Research Assistants and Teaching Assistants Waiver
• Senior Citizen, 65 or Older, Free Tuition for Auditing Classes and 6 semester credit hours
• Waiver for College Faculty and their Dependents

For additional information regarding exemptions/waivers, see the Texas Education Code, 54.201 et seq, at http://www.statutes.legis.state.tx.us/Docs/ED/htm/ED.54.htm#54.201 and College for All Texans website, http://www.collegeforalltexans.com/apps/financialaid/tofa.cfm?Kind=E. Individuals who feel they may qualify under this section are requested to contact the Office of Financial Aid at 972-883-2941.

1. Exemptions and waivers are awarded at the discretion of the university. Exemptions and waivers are granted based on eligibility, availability, and supporting documentation submitted.

2. Entering undergraduate students who are the highest ranking graduated of accredited Texas high schools.

3. Military personnel under the Post 9/11 Veterans Educational Assistance Act of 2008 may be entitled to pay tuition and fees at an institution of higher education at the rates provided for Texas residents without regard to the length of time the person has resided in this state if the person files with the institution at which the person intends to register a letter of
intent to establish residence in this state and resides in this state while enrolled in the institution.

**Tuition for Excessive Doctoral Hours**

For a doctoral student enrolling for the first time in Fall 1999 or after, Section 54.012, *Texas Education Code*, establishes a maximum number of doctoral semester credit hours that a doctoral student may attempt while paying tuition at the rate provided for Texas residents. Attempted semester credit hours include all doctoral semester credit hours taken at a Texas institution of higher education for which a student was registered as of Census Day, including, but not limited to, courses that have been repeated, failed, and courses from which the student withdrew. The maximum is 99 doctoral semester credit hours. A student who exceeds the maximum semester credit hours may be charged tuition at the rate charged nonresident doctoral students. The higher tuition rate applies only to those doctoral semester credit hours that exceed 99 semester credit hours.

**Tuition Tables**

Tuition tables for current semesters may be found on the [Bursar Office website](http://bursaroffice.org) or through the Galaxy portal during registration.

Tuition and fees are subject to change by legislative or regental action.

The Texas Legislature does not set the specific amount for any particular fee. The student fees assessed to students are authorized by state statute; however, the specific fee amounts and the determination to increase fees are made by the university administration and The University of Texas System Board of Regents. Changes in tuition and fees will be effective upon date of enactment and will be reflected in fees and tuition charged. Specific tuition and fees for each term can be found on the Bursar Office website. Students taking courses in the School of Behavioral and Brain Sciences may be required to purchase professional liability insurance if they are in certain clinical experiences.

Students will be given notice on their tuition bill, tuition receipt or an email in connection with tuition charges, of the amount of his/her tuition payment that is required to be set aside to provide financial assistance for students enrolled at the institution per the *Texas Education Code*, Section 56.014.
Tuition and Required Fees

Refund of Tuition and Fees

It is the student's responsibility to know and understand the state mandated refund policy. Upon notification from the Office of the Registrar of official withdrawal, the Bursar Office shall reimburse the applicable portion of tuition and fees (unless otherwise noted) in accordance with the following schedule:

If the student withdraws during a fall or spring semester or a summer term of 10 weeks or longer:

- Prior to the first class day of a given semester, 100 percent reimbursement
- During the first five class days, 80 percent of the applicable portion of the tuition and applicable fees reimbursement
- During the second five class days, 70 percent reimbursement
- During the third five class days, 50 percent reimbursement
- During the fourth five class days, 25 percent reimbursement
- After the fourth five class days, no reimbursement

If the student withdraws during a term or session of more than five weeks but less than 10 weeks (five- and eight-week summer sessions):

- Prior to the first class day of a given term, 100 percent reimbursement
- During the first, second, and third class day, 80 percent reimbursement
- During the fourth, fifth, and sixth class day, 50 percent reimbursement
- Seventh class day and thereafter, no reimbursement

Separate withdrawal refund schedules may be established for other fees and charges. Refer to the "Other User Fees for Courses and Services" section for refund information.

Cash refunds will not be made to students. Refund checks will be mailed to the student's address listed on their Student Center's account in Galaxy (Orion Self Service) three business days after the refund is requested unless the student has opted for direct deposit through EZPAY. Direct deposit refunds are normally available 3 business days from the date they were requested.

All policies regarding the payment or refunding of tuition, fees, and charges are approved by the Board of Regents of The University of Texas System and are in compliance with the Texas Education Code, Section 54.006 of the Texas Statutes. If a person desires clarification of any matter relating to payment or refund of such charges, he or she should contact the office or administrative unit from which the charge or refund originated.
Refunding Students in Title IV Programs

As an institution participating in programs under Title IV of the Higher Education Act of 1965 as amended ("Act"), The University of Texas at Dallas is required to refund unearned tuition, fees, room and board, and other charges to certain students attending who have received a grant, a loan, or work assistance under Title IV of the Act, or whose parents have received a loan on their behalf under 20 U.S.C. Section 1087-2. The refund is required if the student does not register for, withdraws from, or otherwise fails to complete the period of enrollment for which the financial assistance was intended. No refund is required if the student withdraws after a point in time that is sixty percent of the period of enrollment for which the charges were assessed. A student who withdraws prior to that time is entitled to a refund of tuition, fees, room and board, and other charges that is the larger of the amount provided for in Section 54.006, Texas Education Code, or a pro rata refund calculated pursuant to Section 484B of the Act, reduced by the amount of any unpaid charges and a reasonable administrative fee not to exceed the lesser of five percent of the tuition, fees, room and board, and other charges that were assessed for the enrollment period, or one hundred dollars. If the student's charges were paid by Title IV funds, a portion or all of the refund will be returned to these programs.

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Tuition and Required Fees

Other User Fees for Courses and Services*

* The following information is not intended to be comprehensive and is subject to change. Tuition and fees are subject to change by legislative or regental action, and changes become effective on the date of enactment. The Texas Legislature does not set the specific amount for any particular student fee. The student fees assessed below are authorized by state statute; however, the specific fee amounts and the determination to increase fees are made by the university administration and The University of Texas System Board of Regents. Fees can be found on the Bursar Office website for each term.

**Application Fee:** A nonrefundable application fee of $50.00 is required of all students applying for admission to The University of Texas at Dallas during the regular application period. If a student submits an application after the application deadline but prior to the documentation deadline, the application fee is $125.00 in order to process the application for a decision in time to register for classes. An additional $50.00 international document evaluation fee is required for those who have educational documents from countries other than the United States. Please refer to the Office of Admission and Enrollment Services website for application deadlines.

**Application Fee for Study Abroad:** Students applying to study abroad will be charged a $75.00 application fee.

**Audit Fee:** Students at The University of Texas at Dallas may, with the approval of the instructor and of the Office of the Registrar, audit courses. Auditing grants only the privilege of hearing and observing and does not grant credit. When approval has been granted, the applicant pays a fee of $100.00 per course. A student may withdraw from an audit course, but the fee will not be refunded. Persons 65 or over are permitted to audit without paying a fee. They must, however, qualify otherwise (see "Auditing Courses" in this catalog), complete the audit form, and have the consent of the instructor. Audit registration is permitted only during the late registration period of each semester or term.

**Change of Major Fee:** There is a $50.00 fee for students changing majors more than two times in an academic career.

**Collin Higher Education Center Fee:** Courses offered at Collin Higher Education Center are charged a $80.00 fee per semester credit hour.

**Diploma Replacement or Duplicate Fee:** A $10.00 fee is required to defray costs of preparing replacement or duplicate diplomas. An additional $25.00 will be charged to mail a diploma to a foreign address.

**Distance Learning Fee:** A fee per semester credit hour to enroll in distance education courses offered over the Internet. Please check the online fee schedules at www.utdallas.edu/bursar/tuition/tables for fees rate. The rate varies based on the specific tuition plan.

**Emergency Transcript (same day):** A $10.00 processing fee in addition to the Transcript Request Fee for expedited service of the official transcript.

**Field Trip Fee:** This fee is assessed to cover the costs of transportation, food, and/or lodging associated with a field trip. The amount of the fee varies depending on the destination and duration of the field trip. Every effort will be made to advise students of the field trip costs associated with a particular course at the time of registration, and the appropriate fee will be assessed at that time. Refund provisions do not apply to this fee.
In Absentia Registration Fee: A student who registers in absentia shall pay a nonrefundable/nontransferable registration fee of $100.00. [See definition of in absentia at http://catalog.utdallas.edu/2015/graduate/policies/graduation#graduation-under-in-absentia-registration].

Installment Payment Plan Fee: A $25.00 fee to cover the costs of providing a payment option for students in full term fall or spring semester courses. The plan is also available for students enrolled in the 11-week summer semester.

Installment Plan Late Fee: A late payment fee of $30.00 for delinquent payment will be assessed if the second or third tuition installment is not paid by the published due date. In the event of non-payment, the total amount due shall accrue interest from the third payment deadline at the rate of ten percent (10%) per year until the note is paid in full.

Institutional Loan Delinquency Fee: A late charge of $30.00 per month ($90.00 maximum per note) will be assessed to students who do not repay their loans in accordance with the terms of the note.

Institutional Loan Origination Fee: A loan origination/administration fee of 1.25% of the total loan balance will be assessed and must be paid by the due date.

International Student Special Services Fee: The International Student Special Services Fee supports the ongoing success of non-immigrant students enrolled at UT Dallas. This fee supports the programs and services of the International Student Services Office (ISSO), including: immigration advising, certification of immigration benefits, cultural/social events, and educational/transitional programs. In addition, the fee supports federal reporting and certification of international student data in accord with federal regulations.

The mandatory $100.00 International Student Special Services fee is assessed at the time of registration each semester. Immigrant categories that are fee-exempt include: U.S. citizen, U.S. Permanent Resident, Temporary Protected Status, Refugee, Asylee, Public Interest Parolee, Temporary Residence-Amnesty, and undocumented aliens. Any student whose status changes officially to one of the exempt classifications is required to submit proof of that change to the UT Dallas Registrar's Office and International Student Services Office, and will not, subsequently, be assessed the fee. If the appropriate documentation is submitted prior to Census Day of a semester, the fee for that semester will be refunded based on the tuition refund schedule as published in the UT Dallas Academic Calendar.

Late Course Add Fee: A $100.00 per course fee is assessed when a registered student adds a course after Census Day.

Late Graduation Fee: A $100.00 nonrefundable, non-transferable fee is assessed when an approved application for graduation is received after the deadline.

Late Registration (Payment) Fee: A nonrefundable charge of $100.00 with additional increments of $50.00 based on the number of days past the regular registration/payment deadline is required to defray costs associated with extending registration times.

Library Fines and Charges: Fines and fees for overdue library items are available at the Eugene McDermott Library's circulation policies: www.utdallas.edu/library/about/policies/circpolicy.html. Copies of the fine schedule can also be obtained at the McDermott Library Circulation/Reserve Desk.

Orientation Fees: Transfer students will be charged the Transfer Student Orientation Fee of $25.00. International students will be assessed the International Student Orientation Fee of $50.00.
Parking Fees: A parking permit is required to park any motorized vehicle on campus. Any vehicle parked on campus that does not display a current parking permit will be subject to a parking citation. In compliance with the Texas Education Code 51.207 (b), The University of Texas at Dallas has procedures for enforcing State of Texas vehicle inspection laws for vehicles parking or driving on the campus of the institution. The law is as follows:

51.207 (b) This subsection applies only to a public institution of higher education campus that is located in whole or part in an area in which a motor vehicle registered in the area is required to undergo a vehicle emissions inspection under Subchapter F, Chapter 548, Transportation Code. The institution may not issue a permit to a student enrolled at the institution to park or drive a motor vehicle that is not registered in this state on institutional property unless the institution has provided written notice to the student concerning requirements for vehicle emissions inspections pursuant to Subchapter F, Chapter 548, Transportation Code.

Information regarding parking regulations and permit fees may be found at the Parking and Transportation website under permits at www.utdallas.edu/parking/regulations.html or www.utdallas.edu/parking/permits.html. Students may purchase the following permits online through the UT Dallas Online Store and mailed to the shipping address provided or purchase them in person at the Bursar Office:

- E-Parking: Allows students to park in extended parking spaces in lots A and B only. Parking allowed in lot U before 4:30PM
- Green: Allows students to park in campus green and extended parking spaces.
- Gold: Allows students to park in campus gold, green, or extended parking spaces.
- Evening Orange: Allows students to park in orange marked spaces after 5 p.m. or gold, green, and extended parking spaces anytime.
- Housing Only: A parking permit is required for all residents of the University Village apartments. Allows students to park in residential lots or green parking at WSTC, ROC, and Callier-Dallas only.

Note: Only one housing permit may be sold per student residing in the on campus apartments or resident hall. Housing permits are nonrefundable.

Parking permits are purchased for the academic year and are refundable on a prorated basis with the exception of the housing only permit.

Parking is free for disabled veterans that have a state handicap placard and/or plates in accordance with Texas Education Code, section 681.008. The disabled veterans must register with Parking and Transportation Services to receive a UT Dallas handicap parking permit and may park in any parking space on campus that is not Reserved. A UT Dallas handicap parking permit is necessary to park in handicap designated spaces.

The Dallas Area Rapid Transit System (DART) provides bus service to the campus from the Richardson transfer terminal. Contact DART for schedule information. Students are eligible for a free transit pass from DART, which is available through the Comet Center, located on the second floor of the Student Union.

Participation Fee for Study Abroad: Students participating in a study abroad program will be charged a $250 fee to cover student services and insurance.

Physical Instruction Fee: A $25.00 per course fee will be charged for all Physical Instruction (PHIN) courses.

Practical Training Fee: A $100.00 per practical training application fee is charged to assist in funding the administrative and clerical expenses required to review records and process the forms required by the United...
States Citizenship and Immigration Service to certify international students for placement in curricular or optional practical training assignments.

**Recreational Sports Group Exercise / Non-credit Course Fee:** A group exercise pass can be purchased for $50.00 granting access to all group exercise classes for the semester. Non-credit courses are $50.00 for each individual class a student chooses to participate in.

**Recreational Sports Locker Rental Fee:** An optional locker rental fee (based on the size of the locker rented) of $5.00 - $15.00 per semester.

**Recreational Sports Towel Service Fee:** An optional towel service of $10.00 per semester.

**Reinstatement Fee (Prior to Census Day):** After the payment deadline for each semester, all registration for which tuition and fee payments have not been received may be canceled. If a student requests that the courses be reinstated before Census Day, a $25.00 reinstatement fee will be charged in addition to the graduated late registration fee. No student will be reinstated into a class that has been closed.

**Reinstatement Fee (After Census Day):** A $300.00 fee will be charged, in addition to tuition and required fees, to enroll a student after Census Day.

**Returned Check Fee:** Students will be assessed a $25.00 fee for each returned check unless their bank provides written notification it was at fault. Students who write bad checks to the university for tuition and fees will have their registration canceled unless full payment is made by the census day listed in the Academic Calendar.

**Student Documents/Records Fee:** Students may obtain a copy of International Transcripts by making a written request to the Office of the Registrar and paying a fee of $10.00 per document copy at the Bursar Office. Processing of these requests for copies will generally take four to five work days. Students should be aware, however, that transcripts of other schools received by the university are used as working documents, frequently carry written marks and notations, and may not be considered viable transcripts by other agencies.

**Student Health Insurance Fee:** A variable fee to pay the student’s premium for the approved UT Dallas student health insurance plan available to all students and required for international students (students who are not U.S. citizens, U.S. Permanent Residents, Asylees, Refugees or undocumented aliens). See [http://catalog.utdallas.edu/2015/graduate/resources#student-health-insurance](http://catalog.utdallas.edu/2015/graduate/resources#student-health-insurance).

**Student Health Insurance Fee, Dependents and Extra Coverage:** A variable fee to pay the premium for expanded coverage within the approved UT Dallas student health insurance plan. These insurance fees are optional and available upon request to students who wish to add dependents or extra coverage to their enrollment in the UT Dallas student health insurance plan. (See [http://catalog.utdallas.edu/2015/graduate/resources#student-health-insurance](http://catalog.utdallas.edu/2015/graduate/resources#student-health-insurance)).

**Student Identification Card Replacement Fee:** A $25.00 fee is required to defray the costs of reissuing a student ID card.

**Student Teaching Supervisory Fee:** A $250.00 per field experience fee is required to defray costs of providing university supervisors and travel for university supervisors of student teachers.

**Supplemental Designated Tuition:** An extra fee per semester credit hour will be assessed for students enrolled in any School of Management course, School of Engineering and Computer Science course, School of Arts and Humanities ATEC course, Economic, Political and Policy Sciences graduate Public Affairs course, or School of Behavioral and Brain Sciences graduate Speech Language or Audiology (COMD or AUD) course. These fees are assessed to defray the higher costs associated with instruction in these schools. Please check [...](http://catalog.utdallas.edu/2015/graduate/resources#student-health-insurance).
the online fee schedules at [www.utdallas.edu/bursar/tuition/tables](http://www.utdallas.edu/bursar/tuition/tables) for fees rate. The rate varies based on the specific tuition plan.

<table>
<thead>
<tr>
<th><strong>Transcript Request Fee:</strong></th>
<th>A $10.00 processing fee for each official university transcript requested.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Universities Center at Dallas Fee:</strong></td>
<td>A $15.00 fee per semester credit hour is required to defray the costs of courses taken at the Universities Center at Dallas.</td>
</tr>
</tbody>
</table>
Tuition and Financial Aid

Student Financial Aid

Office of Financial Aid

The Office of Financial Aid is available to assist students in obtaining funds to attend The University of Texas at Dallas. Aid is available in the form of loans, grants, and part-time employment or any combination of those programs. The total amount of aid the student receives depends on the level of financial need, submission of appropriate financial information and applications, academic records, and the availability of funds.

Students are encouraged to contact the Office of Financial Aid to obtain appropriate application materials and to determine eligibility for the various forms of aid available. Students are also strongly encouraged to view the Office of Financial Aid website for up-to-date information. The Office of Financial Aid is located in the Student Services Building, 972-883-2941.

Changes in regulations or policy on a federal, state, university, private lending, or donor level could affect the types of programs, amounts available, and/or program requirements. A complete overview of the estimated cost of attending the university is available on our website at http://www.utdallas.edu/student/finaid/Estimated_Costs.htm.

Eligibility

Most of the aid listed in this catalog is awarded on the basis of financial need. Students are encouraged to determine the amount of resources they can provide toward their education and to compare it with the average cost of attending the university. UT Dallas’ estimated cost of attendance budgets are reviewed annually in accordance with federal and state guidelines. Federal guidelines outline what can be included in student budgets. The costs of tuition and fees, books and supplies, an average room and board cost, transportation, and a limited amount for other personal expenses are the basic components of student budgets. Unusual expenses, such as childcare costs or educational costs related to the student’s medical disability, may be considered when they have been properly documented.

Financial need is the difference between the cost of attending the university and the amount a student and family can reasonably provide. The amount of the expected family contribution is based on a federal formula reflecting total family income, assets, household size and number of family members currently attending post-secondary educational institutions.

In determining whether a student is considered independent or self-supporting, the Office of Financial Aid adheres to the standards set by the U.S. Department of Education to establish an applicant’s dependency status. Graduate students are considered by these standards to be independent of their parents for the purpose of calculating a family contribution.
Applying for Financial Aid

Students must submit a Free Application for Federal Student Aid (FAFSA) form in order that a determination can be made of the expected resources available to the applicants. The FAFSA is available at www.fafsa.gov on January 1st of each year for the subsequent academic year. The awarding of need based financial aid is based on the results of each year’s FAFSA. If you do not meet federal eligibility requirements to be considered a citizen or eligible non-citizen, but have been classified as a Texas resident and are therefore eligible to pay the Texas in-state tuition rate, you must complete a paper version of the Texas Application for Student Financial Aid (TASFA) available to be downloaded and printed at www.collegeforalltexans.com. This form must be submitted directly to the Office of Financial Aid.

Required Course Load

To be considered for federal financial aid a graduate student has to be enrolled for a minimum of five semester credit hours of graduate coursework during each long term and a minimum of three semester credit hours of graduate study during any summer session.

Renewal of Financial Aid

For a student to be considered for a renewal of financial aid, a new Free Application for Federal Student Aid (FAFSA) and supporting documents must be submitted for each academic year. If you do not meet federal eligibility requirements to be considered a citizen or eligible non-citizen, but have been classified as a Texas resident and are therefore eligible to pay the Texas in-state tuition rate, you must complete a paper version of the Texas Application for Student Financial Aid (TASFA) available to be downloaded and printed at www.collegeforalltexans.com. This form must be submitted directly to the Office of Financial Aid.

Revocation of Aid

The university reserves the right to adjust or cancel awarded financial aid when the information used to make the award changes. Partial or full repayment of awards may be required.

Any change in a recipient's financial situation, such as additional grants, scholarships, or private student loans, must be reported to the Office of Financial Aid. Federal law governing the administration of financial aid requires UT Dallas to consider most forms of grants, scholarships, and private loans as a resource, without regard to the source or how the aid is disbursed, when awarding federal student financial aid.

Information concerning student financial aid is accurate at the time of printing. Changes in regulations or policy on a federal, state, university, private lending, or donor level could affect the type and amount of programs available and/or program requirements. The Office of Financial Aid has detailed information available upon request.

Satisfactory Academic Progress Policy for Federal Financial Aid

The University of Texas at Dallas has a "Satisfactory Academic Progress" policy for a student receiving
student financial aid.
Generally, the student is expected to remain in good standing by the satisfactory completion of a minimum number of semester credit hours, based on a percentage of the semester credit hours attempted and completed. This completion rate may vary depending on the student’s academic level and semester credit hour load. In addition, graduate students must maintain a grade point average (GPA) of 3.0 or above on coursework completed at the university.

For more detailed information the student should contact the Office of Financial Aid. This information is also available online at the Office of Financial Aid website at http://www.utdallas.edu/student/finaid/SAP.htm. A link to the website is provided on award notifications.

**Selective Service**

Male students between the ages of 18 and 26 must register with Selective Service to qualify for federal and Texas student loans or grant programs. Students may register with Selective Service by visiting their local post office or online; they can also verify their registration at www.sss.gov.

Effective January 1, 1998, the selective service requirement is also applicable to students applying for financial assistance funded by State revenue.
Tuition and Financial Aid

Types of Financial Aid

Basis for the Type of Financial Aid

The aid awarded to a student may consist of a loan, grant, scholarship, part-time job, or any combination of these programs. The total amount of aid the student receives depends on the student's cost of attendance, expected family contribution, meeting application deadlines, outside resources, academic history, and the availability of funds.

Types of Financial Aid

The following is a summary of the types of assistance that are available to graduate students at The University of Texas at Dallas. The student should be aware that many of the programs are subject to change without notice by the state or federal government. Information on all programs may be obtained from the Office of Financial Aid unless otherwise noted.

Texas Public Education Grant

An act of the 64th Texas Legislature established a grant program to provide financial assistance to students. This program is funded through appropriation of a portion of the tuition charge for resident and nonresident students. Students completing a FAFSA or TASFA will automatically be considered for this grant. Awards are based on the availability of funds and the student's financial need.

Educational Assistance Grant

This program was established to provide financial assistance to students by an act of the Texas Legislature. The program is funded through appropriation of a portion of the designated tuition charge for resident and nonresident students. Students completing a FAFSA will automatically be considered for this grant. Awards are based on availability of funds and the student's financial need.

International Education Fund Scholarship

Through the proceeds from the International Education fee, scholarships are available for study-abroad programs. These scholarships are open to both graduate and undergraduate students enrolled at least one-half time. Graduate students must be admitted to a degree program and have a minimum GPA of 3.0. While abroad, the recipient of this scholarship must be enrolled in a full-time course of study. Coursework undertaken must apply to the student's degree program.
Hazlewood Veteran Tuition Exemption

The Hazlewood Exemption Act provides an education benefit to honorably discharged or separated Texas veterans and to eligible dependent children and spouses of Texas veterans. Eligible students may receive an exemption from the payment of all tuition and most fees at Texas public institutions for up to 150 semester credit hours. Information on the Hazlewood Act and eligibility requirements are available at the Texas Veterans Commission website. Additional information can be found in the Office of Financial Aid Hazlewood Exemption website.

Federal Perkins Loan Program

This loan program provides a combination of federal and institutional funds to students who qualify on the basis of financial need. Priority is given to those students who demonstrate exceptional need. Students completing a FAFSA are considered for the program. Funding for this program is limited.

Graduate students may borrow up to $8,000 in a year with a total aggregate borrowing of $60,000, which includes amounts borrowed as an undergraduate. Current funding levels for this program do not allow UT Dallas to offer eligible students the maximum annual amount.

A Federal Perkins loan bears a modest interest rate. Borrowers are required to begin repayment of principal and interest nine months after they cease to be at least half-time students. Repayment may extend over a ten-year period; however, there is a minimum payment of $40.00 a month.

Hinson-Hazlewood College Student Loan Program

Texas residents who meet eligibility requirements may borrow funds to meet a portion of their school expenses. The loan carries a modest interest rate. Repayment begins six months after graduation or withdrawal from the university. The application for this loan is found at www.hhloans.com.

Federal Direct Stafford Loan

Also called a Direct Loan, funds from this program are made available to students from the U.S Department of Education. As of July 1, 2012 all graduate Federal Direct Stafford Loans are unsubsidized. The maximum amount a student can borrow from this program in an academic year depends on the student's total cost of education as determined by the school and what other forms of financial aid the student is receiving. Graduate student may not borrow more than $20,500 in an academic year. The unsubsidized Direct Stafford Loan accrues interest while the student is in school; a student may choose to pay the accruing interest while in school or may defer the repayment of the interest until after graduation, when it is added to the principle of the loan. Students completing a FAFSA will automatically be considered for this program.

Information regarding this program, including the promissory note and the Entrance Counseling, is available at www.studentloans.gov.
Federal Work-Study Program

Federal Work-Study employment is available to students on the basis of demonstrated financial need and is counted as a form of need-based financial aid. Funds from this program are received as a result of working part-time at a position either on- or off-campus. The wages of students participating in this program are subsidized with federal funds, making it easier to find a part-time job. The student is paid directly. Students completing a FAFSA will automatically be considered for this program. Awards are based on availability of funds and the student's financial need.

The rate of compensation depends on the type of job, qualifications, and classification. The number of semester credit hours and work schedule will vary depending on the position. For information on job availability, students who have been awarded Federal-Work Study as part of their financial aid package should contact the Career Center at 972-883-2943 or go to their website at www.utdallas.edu/cometcareers to access the CometCareers system.

Other On-Campus Employment

Various programs and schools of the university employ students in positions that are not Federal Work-Study positions and are not based on need. In accordance with appropriate guidelines, pay scales depend on the type of job, qualifications, and classification. Students interested in these positions should contact the Career Center at 972-883-2943 or go online at www.utdallas.edu/career to access the CometCareers system.

Information concerning student financial aid is accurate at the time of printing. Changes in regulations or policy on a federal, state, university, private lending, or donor level could affect the type and amount of programs available and/or program requirements. The Office of Financial Aid has detailed information available upon request.

Scholarship Programs

Information about a variety of scholarships awarded on the basis of academic merit and achievement is available from the Office of Financial Aid. The University of Texas at Dallas also offers a number of endowed scholarships that are administered by a school, department, or program. Students are encouraged to contact their school dean or program office to obtain information about eligibility criteria and scholarships awarded in the student’s area of study.

In accord with Chapter 54 of the Texas Education Code provided below, all applications for competitive academic scholarships for graduate study are reviewed by the Committee on Student Scholarships and/or the Graduate Scholarship Committee in the appropriate academic unit.

Texas Education Code

Sec. 54.213. SCHOLARSHIP STUDENT

• (a) An institution of higher education may charge a nonresident student who holds a competitive scholarship of at least $1,000 for the academic year or summer term for which the student is enrolled.
resident tuition and fees without regard to the length of time the student has resided in Texas. The student must compete with other students, including Texas residents, for the scholarship and the scholarship must be awarded by a scholarship committee officially recognized by the administration and be approved by the Texas Higher Education Coordinating Board under criteria developed by the coordinating board.

- (b) The total number of students at an institution paying resident tuition under this section for a particular semester may not exceed five percent of the total number of students registered at the institution for the same semester of the preceding academic year.

- (d) The difference between tuition charged to the student under this section and the tuition the student would be charged if this section did not apply to the student shall not be accounted for in such a way as to reduce the general revenue appropriation to an institution of higher education that charges a nonresident student resident tuition and fees under this section.

Transferred and redesignated from Texas Education Code, Section 54.064 by Acts 2011, 82nd Leg., R.S., Ch. 359, Sec. 1, eff. January 1, 2012.

Please visit UT Dallas Scholarships for more information.

Graduate Scholarships General Selection Criteria:

- Good academic standing
- Demonstrate academic promise
- Full or part-time enrollment
- Degree seeking
- Financial need may be considered but is not required

Teaching and Research Assistantships

Teaching Assistantships are available on a limited basis in most graduate programs. Also, many faculty members have research projects which provide Research Assistantships. These Teaching and Research assistantships normally involve half-time employment and are awarded on the basis of merit. Students holding these assistantships must be enrolled for a minimum of nine semester credit hours for each regular semester in which the assistantship is awarded. The Dean of each school designates the minimum semester credit hours for a summer session. A student on a Teaching/Research Assistantship who is enrolled in the minimum number of semester credit hours and wishes to drop a course must obtain the signature of the Dean of Graduate Studies. Students on probation will not be supported on an assistantship.
Applications should be made to the appropriate Graduate Program office at least 60 days prior to the date of registration.

Prior to their appointment as Teaching Assistants, international students must meet the English requirements described in the "English Requirements for Teaching Assistants" section. All TA's are required to attend TA Orientation held immediately prior to fall and spring semesters.
Resources for Study and Campus Life

**General Resources**
- Callier Center for Communication Disorders
- Career Center
- Carolyn Lipsky Galerstein Women's Center
- Child Care Center
- Comet Card
- Comet Center
- Comet Families
- Comet Spirit Programs
- Computer Facilities
- CourseBook Tool
- Dean of Students
- Distance Education
- Financial Literacy Training
- Fraternity and Sorority Life
- Intercollegiate Athletics
  - International Education Credit Programs
  - International Education Non-Credit Programs
  - International Student Services
- Judicial Affairs
- Leadership Education and Development
- Multicultural Center
- New Student Programs
- Recreational Sports
- Residential Life
- Road Warriors
- ROTC Programs
- Spirit Squads
- Student AccessAbility
- Student Activities
- Student Affairs
- Student Counseling Center
- Student Government
- Student Leadership Programs
- Student Media
- Student Organization Center

**Student Organizations**
- Student Outreach and Academic Retention (SOAR)
- Student Success Center
- Student Transition Programs
- Student Union
- Student Union and Activities Advisory Board (SUAAB)
- Student Volunteerism
- Student Wellness Center
- Textbooks
- Transfer Student Services
- University Housing Information
- University Libraries
- UT Online Consortium
- Veteran Services Center

**Health Resources**
- Student Health Center
- Bacterial Meningitis Vaccination Requirement
- Hepatitis B Vaccination Requirement
- Mandatory Tuberculosis (TB) Skin Test for International Students
- Recommended Immunizations
- Student Health Insurance

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**NOTE:** see next page for remaining column (will not appear this way in the web catalog).
International Resources
International Center
Education Abroad/Study Abroad Programs
Intercultural Programs
International Student Resources
  -- Definitions and Fees
  -- Registration Requirements
  -- Student Health Insurance
Student Immigration Services
International Travel Policies and Services

Student Complaint Resources
Student Complaint Resources
Resources for Study and Campus Life

Callier Center for Communication Disorders

The Callier Center is an internationally recognized institution that offers services to people who have any type of communication disorder. Acknowledged for meeting the assessment, treatment, education, and social service needs of children and adults with communication disorders, the Center has programs in preschool education, parent education, and child development. Its clinical services include pediatric and adult services in audiology, speech pathology, and language development; its research activities include psychoacoustics, auditory neurophysiology, speech science, and audiology. Graduate classes are conducted at the Callier Center-Dallas facility, adjacent to The UT Southwestern Medical Center and at the Callier Center-Richardson facility on the main UT Dallas campus.

Career Center

The Career Center offers a full range of services to help students prepare for careers. Services include career counseling and interest assessments, resume and job search document critiques, mock interviews, job search assistance, and more. In-depth information is available on the Career Center's website. The Career Center manages the internship program for all majors except EE/CS majors. Students can obtain assistance with searching for and applying for internships as well as information about options for academic credit based on their major. A variety of seminars on such topics as resume writing, cover letter writing, interviewing, networking, and conducting an effective job search are offered on a regular basis. The Career Center also offers a credential file service to assist PhD students with applying for academic positions after graduation.

Representatives of business, government, industry, education, and social agencies work directly with the Career Center to determine the best way to connect with students. They regularly recruit UT Dallas students and alumni through career expos, on-campus interviews, and information sessions. Potential employers also connect with students through Career Center sponsored events such as Mock Interview Day, Resume ER, and many others throughout the year. Organizations post their various opportunities through the CometCareers system.

For more information, contact the Career Center in the Student Services Building room 3.300, telephone: 972-883-2943, web: http://www.utdallas.edu/career, email: Career Center.

Carolyn Lipsky Galerstein Women's Center

The Women's Center works with organizations in the university and the Dallas communities to provide
resources and services that enhance the experience of all campus women by contributing to an academic atmosphere in which positive role models are highly visible and gender bias and inequities can be addressed. The Center acts as a central coordinating agency for campus and community groups, and offers opportunities and events that promote a broader understanding of the diverse experiences and ideas of women. The Center offers dynamic programs, and provides resources and services that will help the women of our community to grow and develop personally and professionally.

How can I use the Women's Center?

• Meet new people, network with other professionals, socialize, talk to someone who's willing to listen;
• Take a break, study, use the computer, read or rent a book, video, or magazine from our library;
• Learn about resources on campus and in the community that address your specific needs;
• Use the Center as a meeting place for your organization;
• Volunteer at the Women's Center, or find out about volunteer opportunities in the community;
• Stay current on upcoming events and important issues;
• Find out about scholarships offered in the community and nationally.

The Women's Center is located in the Student Services Building, room SSB 4.300, 972-883-6555.

Child Care Center

The Dallas International School (DIS) and UT Dallas jointly provide evening child care. Parents who attend classes are eligible for child care services during their evening class hours for children ages 4 to 11. Child care hours are from 3:30 p.m. to 10:30 p.m., Monday-Thursday. To register your child/children for the child care program please complete each of the forms in the enrollment packet. Call 972-883-6391 to have a packet sent to you, or pick one up in the Student Services Building, 4.400.

Comet Card

The Comet Card is the official university identification card for all students, faculty, and staff. The Card allows access to campus facilities and services, including building access and meal plans, if applicable. It also offers an optional campus account, UTDollars, for on-campus purchases and payments. Cards are issued through the Comet Center located in the Student Union. Call 972-883-2495 or go to www.utdallas.edu/cometcard for more information.

Deleted: The Comet Card is the official university identification card for all students, faculty, and staff. The Comet Card allows the use of campus facilities and services and offers an optional campus account for on-campus purchases and payments. The Comet Card will no longer be linked to a personal Wells Fargo bank account effective July 15, 2014. However, if you have linked your Comet Card to a Wells Fargo bank account, you may continue to use your linked Comet Card for ATM access and PIN-debit purchases during a transition period. There is no need to exchange your current Comet Card. The Comet Card will still be used for all other university purposes, including use of UTDollars, building access, meal plans, if applicable. Cards are issued through the Comet Center located in the Student Union. Call 972-883-2495 or go to www.utdallas.edu/cometcard for information.

Comet Center

The Comet Center, located on the second floor of the Student Union, is where you go to have your Comet Card issued, pick up DART passes or purchase postage stamps and discount tickets to movies, museums, and other local DFW attractions. See www.utdallas.edu/cometcenter for more information.
Comet Families

Comet Families is an avenue for family members and parents of UT Dallas students to get information about the campus, be involved in their student's campus experience, and strengthen their connection to the Comet community. For more information call 972-883-6395 or go to www.utdallas.edu/family.

Comet Spirit Programs

Comet Spirit Programs is comprised of the UT Dallas Cheerleaders, Power Dancers, Pep Band, Soccer Sweethearts, Diamond Dolls, Court Cuties, and Temoc. Temoc is the official mascot of UT Dallas and works with all spirit groups to build school spirit, promote community and cheer the Comets on to victory (www.utdallas.edu/spirit).

Computer Facilities

The Office of Information Resources provides computing facilities for student, faculty, and staff use in instruction and research. General access computer labs are located on the first floors of the Founders Building and the McDermott Library Building. The labs provide a modern, networked computing environment with Windows-based and Macintosh computers, scanners, and more. Dedicated systems are also available to support such functions as campus information services, programming, research-related activities, and computationally intensive applications. A sophisticated campus-wide network permits offices and laboratories direct access to extensive computing resources both on- and off-campus. The university maintains high bandwidth connections to the commodity Internet as well as appropriate research and education networks, such as Internet 2.

Remote administrative services are provided through the Galaxy portal (http://galaxy.utdallas.edu), and remote access to the campus network and computing resources is provided through VPN (Virtual Private Networking) services. The university provides wireless LAN access to the campus community across most of the institution. Currently enrolled UT Dallas students and employed faculty and staff may utilize the campus network using devices with the appropriate wireless network interface. Guest wireless access is also provided on request. The latest information regarding computing services can be found at the Information Resources website at http://www.utdallas.edu/ir.

Many of the schools, programs, and research centers operate their own computing facilities that are available to students as appropriate.

CourseBook Tool

CourseBook is a tool to search for and obtain information related to course scheduling, course descriptions, and course location. CourseBook also contains course syllabi (syllabus), textbook information, course evaluations, and instructor curriculum vitae within one web portal. Go to coursebook.utdallas.edu.

Dean of Students

The Dean of Students provides leadership in the development, overall management, and supervision of
student organizations and activities and serves as an information/referral source for students needing assistance in any situation. The Dean of Students Office is in the Student Services Building, 4.400, and can be contacted at 972-883-6391 or on the web at www.utdallas.edu/deanofstudents.

Distance Education

Education opportunities at the university include courses and entire programs taught online via the Internet. UT Dallas currently offers courses in a number of areas from across the campus, including courses in teacher education and the natural sciences. Furthermore, distance learning opportunities at The University of Texas at Dallas now utilize e-learning technologies to provide students the opportunity to engage in coursework from remote locations and without the time constraints of the traditional face-to-face classes.

Blended (or hybrid) courses that utilize both on- and off-campus presentation, providing students an opportunity to maximize their learning by collaborative learning experiences are also available. UT Dallas also works with a number of partner institutions to provide students additional learning opportunities through exchange programs and other collaborative programs both nationally and internationally.

More information about specific distance learning programs or courses at The University of Texas at Dallas and registration procedures can be found in the Class Schedule or on the distance learning website at www.utdallas.edu/elearning/online-programs.

Financial Literacy Training

In accordance with Texas Education Code, Section 51.305, the university provides students information and resources to acquire financial literacy skills through a series of lectures and/or online courses. By accessing these resources at the Comet Cents Financial Success Center website and meeting with peer financial coaches, students learn how to budget, to build and maintain credit, and to develop skills in managing their personal finances, including health care and other benefits, investing for the future, loans and repayments, retirement planning, saving accounts, and taxes.

Fraternity and Sorority Life

UT Dallas is home to 21 national Greek fraternity and sorority organizations that provide students with opportunities for friendship, academic achievement, service, and leadership. For more information call 972-883-6523 or go to http://www.utdallas.edu/gogreek.

Intercollegiate Athletics

UT Dallas is a member of the NCAA Division III American Southwest Conference. The UT Dallas athletic program includes men’s and women’s soccer, golf, basketball, tennis, and cross country, men’s baseball, women’s softball, and women’s volleyball teams. Graduate students are able to participate only if their undergraduate degree is from UT Dallas and they still have NCAA eligibility remaining. Administrative offices are located in the Activity Center. For additional information call 972-883-4490 or go to cometsports.utdallas.edu.

International Resources

The UT Dallas International Center (IC) is the central point of contact for campus-wide internationalization efforts. The IC includes the following departments:

- International Student Services Office (ISSO). The ISSO serves as a primary resource to the UT Dallas international community by providing student immigration services (prospective, current, and graduated students), federal SEVIS reporting, student immigration advising, F and J immigration processing, and ancillary immigration programs and services.
- Education Abroad (EA). The EA facilitates education abroad activities including study abroad activities (for credit/internship/service learning), faculty led programs, international student exchange programs, and study abroad scholarships.
- Intercultural Programs (IP). The ICP provides and supports innovative, internationally-focused programs for both international and domestic students, such as International Week, International Education Week, Study Abroad fairs/events, and International Student Orientation.
- International Partnership Development (IPD). The IPD works with the UT Dallas International Partnership Development Committee to review and facilitate University-level international affiliation agreements and partnerships in line with university strategic goals.
- International Risk and Safety (RS). The RS works with the UT Dallas International Oversight Committee to provide risk and safety materials for UT Dallas students, faculty, and staff participating in international education programs and traveling internationally on UTD business.

Comment [MV2]: No changes needed per Darren Crone
Comment [MV3]: No changes per Kimshi Hickman, 11-17-14
Deleted: guidance
Deleted: International Center
The UT Dallas International Center (IC) is the central point of contact for campus-wide internationalization efforts. The IC includes the following departments:
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- Education Abroad (EA). The EA facilitates education abroad activities including study abroad activities (for credit/internship/service learning), faculty led programs, international student exchange programs, and study abroad scholarships.
- Intercultural Programs (IP). The ICP provides and supports innovative, internationally-focused programs for both international and domestic students, such as International Week, International Education Week, Study Abroad fairs/events, and International Student Orientation.
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- International Risk and Safety (RS). The RS works with the UT Dallas International Oversight Committee to provide risk and safety materials for UT Dallas students, faculty, and staff participating in international education programs and traveling internationally on UTD business.

Comment [MJ4]: Replaced International Student Services; requested by Cristen Casey, 3-23-15.
International Center (link to/drop down)

The UT Dallas International Center (IC) provides programs and services for international students, all students who study abroad, and those participating in UT Dallas sponsored international travel. The IC includes the following departments:

Education Abroad (EA) facilitates education abroad activities including study abroad (for credit/internship/service learning), faculty led programs, and international student exchange programs. Utdallas.edu/ea.

The International Student Services Office (ISSO) serves as a primary resource to the UT Dallas international community by providing student immigration services (prospective, current, and graduated students), federal SEVIS reporting, student immigration advising, F and J immigration processing, and ancillary immigration programs and services. Utdallas.edu/isso.

Intercultural Programs (IP) provides and supports internationally-focused programs for both international and domestic students, such as International Week, International Education Week, Study Abroad fairs/events, and International Student Orientation. Utdallas.edu/icp.

International Partnership Development (IPD) works with the UT Dallas International Partnership Development Committee to review and facilitate University-level international affiliation agreements and partnerships with international counterparts. Utdallas.edu/ipd.

International Risk and Safety (RS) works with the UT Dallas International Oversight Committee to provide risk and safety materials for UT Dallas students, faculty, and staff participating in international education programs and traveling internationally on UT Dallas business. Utdallas.edu/rs.

The International Center departments are located in the Student Services Building, SSB 3.400. More information can be found at utdallas.edu/ic or by calling 972-883-4189.

Education Abroad/ Study Abroad Programs (link to/ drop down)

UT Dallas offers many international opportunities for both graduate and undergraduate students. Students may participate in international educational programs through five types of mobility: exchange programs, faculty-led programs, internships, independent studies, and third-party study abroad programs.

The Education Abroad office provides information on available opportunities, university policies governing program options, eligibility requirements, basic preparation, institutional protocol, education abroad fees, and the International Education Fund Scholarship. Information is available through special events, group meetings, individual appointments, reference materials, and at the Education Abroad website, www.utdallas.edu/ea.

Students may apply for the UT Dallas International Education Fund (IEF) Scholarship to request financial support for education abroad programs. Information about the IEF Scholarship, including eligibility requirements and deadlines, is available at the Education Abroad website (utdallas.edu/ea/iefs/). Students may consult with the Office of Financial Aid to determine how participation in education abroad impacts existing financial aid offerings.

Education Abroad is located in the Student Services Building, SSB 3.400. More information can be found at utdallas.edu/ea or by calling 972-883-4189.

Intercultural Programs (link to/ drop down)

Intercultural Programs promotes cross-cultural learning and respect through high-quality, innovative, educational and collaborative programming. Some of Intercultural Programs’ largest events include International Week, which celebrates the cultural diversity of UT Dallas, International Education Week, International Student Orientation, English Conversation Hour, Cultural Workshops, and iFriend, a matching program between American and international students.
**International Student Resources (link to/ drop down)**

**Definitions and fees**

All international students enrolling in UT Dallas courses are required to pay the International Student Special Services Fee for the ongoing support of all non-immigrant students enrolled at UT Dallas. Immigrant categories that are fee-exempt include: U.S. citizen; Permanent Resident (PR card required); Conditional Resident; Temporary Protected Status; Refugee; Asylee; Public Interest Parolee; Temporary Residence-Amnesty; People with no documented immigration status.

Any F-1 student participating in Optional or Curricular Practical Training programs is required to pay the Practical Training fee at the point of each Practical Training application. This fee funds the administrative and clerical expenses required to review records and process the forms required by the United States Citizenship and Immigration Service to certify international students for placement in curricular or optional practical training assignments.

All F-1 and J-1 students enrolling in UT Dallas courses for the first time are charged the International Orientation fee to support the administrative cost of running the mandatory international orientation program.

Any student whose immigration status changes officially is required to submit proof of that change to the UT Dallas Registrar’s Office and International Student Services Office (ISSO). If the status changes to an exempt classification, the student will not, subsequently, be assessed the International Student Special Services Fee. If the appropriate documentation is submitted prior to Census Day of a semester, the fee for that semester will be refunded based on the tuition refund schedule as published in the UT Dallas Academic Calendar.

**Registration requirements**

Prior to enrollment, international students are required to meet the Tuberculosis test and Meningitis vaccine requirements. All F-1 and J-1 students must attend an International Student Orientation prior to registering in UT Dallas courses. Incoming freshmen students may meet the International Student Orientation requirement by attending Freshman Orientation, with a supplemental one hour international session.

**Student Health Insurance (link to SHI reference entry)**

**Student Immigration Services**

The International Student Services Office (ISSO) provides immigration advising services and processing of I-20 and DS-2019 immigration documents for the international student population at UT Dallas. Services are designed to support international students with information necessary to achieve their educational goals, and information is available through individual student appointments, seminars and workshops, and other outreach activities. Specific legal advice may be sought through immigration attorney services provided by the Student Government. Further information can be found by contacting Student Government.

**International Travel Policies and Services (link to policy page)**

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**Judicial Affairs**

A part of the Dean of Students Office, the Office of Judicial Affairs promotes academic integrity and is responsible for investigating allegations of academic dishonesty and implementing the discipline process. More information can be found at [www.utdallas.edu/deanofstudents](http://www.utdallas.edu/deanofstudents) or by calling 972-883-6391.
**Living Learning Communities**

Living Learning Communities allow small groups of freshmen who share common academic objectives, goals, and interests to develop a support network with other students, peer advisors, and faculty/staff members. Communities are built around academic interests with a faculty or staff advisor who facilitates distinctive academic and social opportunities that help students extend their learning beyond the classroom. For more information call 972-883-7348 or go to www.utdallas.edu/livinglearning.

**Multicultural Center**

The Multicultural Center (MC) provides cultural programs, support services, resources and cultural education programs. The MC is a place for students, faculty and staff to gather and relax. The MC has a comfortable lounge area with a television, videos, computer lab, work station, and a meeting room. Traditional events hosted by the MC are Hispanic Heritage Month, Black History Month, MLK Jr. Breakfast, Asian-American Heritage Celebration, Native American Heritage program, and the Diversity Dinner Dialogues. The MC is home to the Multicultural Peer Advocates (MPA’s). The MPA’s are student peer advocates that are available for personal, social or academic assistance.

Office hours are Monday through Thursday 8:30 a.m. - 6:00 p.m., Friday 8:30 a.m. - 5:00 p.m. Location: Student Services Building. Email: Multicultural Center, Telephone: 972-883-6390. Website: www.utdallas.edu/multicultural, Director: Arthur Gregg.

**New Student Programs**

New Student Programs facilitates the transition of new students and their families into the institution. Through a welcoming and inclusive atmosphere, we provide the framework for new students to learn and develop as they adjust to the expectations, standards, and academic rigor of the university while fostering pride in the UT Dallas community. For more information call 972-883-6171 or go to www.utdallas.edu/newstudents.

**Recreational Sports**

Recreational Sports provides UT Dallas students with diverse recreational programs to enhance their overall educational experience. The Activity Center includes a state-of-the-art fitness center, racquetball courts, squash courts, basketball courts, a multi-purpose room, an indoor swimming pool, sand volleyball courts, soccer fields, tennis courts, softball and baseball fields, and a rock climbing wall. Rec Center West is located directly next to Residence Hall West and Dining Hall West. It is available to all students, faculty and staff. Rec Center West’s gym courts will be reserved primarily for badminton and volleyball. The center also includes a cardio fitness space and multipurpose room for additional workout needs. Recreational Sports also offers students opportunities to participate in a variety of intramural and club sports, group exercise and non-credit courses. For additional information call 972-883-2096 or go to www.utdallas.edu/recsports.

**Residential Life**

Residential Life and its student-support team of Peer Advisors are committed to seeing that every resident student has a safe, comfortable and welcoming environment in which to live and learn. For more information...
Road Warriors

The Road Warriors program is committed to enriching the collegiate experience of commuter students at UT Dallas. We serve the commuter student population through information, resources and social programs. For more information call 972-883-6183 or go to https://www.utdallas.edu/roadwarriors.

Student AccessAbility

Student AccessAbility ensures that qualified students with documented disabilities have an equal opportunity to participate in educational, recreational, and social activities at UT Dallas. Students with disabilities are urged to contact Student AccessAbility as soon as they are admitted to the university. Student AccessAbility is located in the Student Services Building, 3.200, and can be contacted at 972-883-2098 or on the web at www.utdallas.edu/studentaccess.

Student Activities

Student Union and Activities Advisory Board (SUAAB) is a group of student leaders dedicated to programming diverse social and educational events to enhance the student experience. Events coordinated by SUAAB include the annual Homecoming Dance, Casino Night, Springapalooza, comedians, concerts, and more. SUAAB is located in the Student Activities Office (SU 2.506) and can be contacted at 972-883-6438 or on the web at www.utdallas.edu/suaab.

Meteor Theater is a student-run movie program that screens popular movies on campus. Meteor Theater also screens cutting edge documentaries through its Cinemateque program and international films through its World Cinema program. Meteor Theater host the annual Cosmic Film Festival to encourage an interest and appreciation of student-created, original movies and short films. Meteor Theater is located in the Student Activities Office (SU 2.506) and can be contacted at 972-883-6215 or on the web at www.utdallas.edu/meteortheater.

Student Affairs

The Division of Student Affairs, under the direction of the Vice President for Student Affairs, offers a variety of student services and programs to enhance the educational experience of all enrolled students. For more information go to www.utdallas.edu/studentaffairs.

Student Counseling Center

The Student Counseling Center is staffed by licensed psychologists and counselors who are available to help students with personal and interpersonal problems. Services include individual counseling, couple counseling, group counseling, crisis intervention and special workshops/programs relevant to student needs. In addition, a psychiatrist is available to provide Student Counseling Center clients with medications when necessary.

All counseling services and records are held confidential to the extent permitted by law and are governed by
the Family Educational Rights and Privacy Act, the Texas Open Records Act, and Article 5561(h), Vernon’s Annotated Texas Civil Statutes. The Student Counseling Center is located in the Student Services Building, SSB 4.600. For more information call 972-883-2575 or go to www.utdallas.edu/counseling.

Student Government

Student Government is the official representative body and voice of UT Dallas students. Students have the opportunity to participate through serving on committees, running for office, or voting in elections. Student Government provides many free services for students, including attorney services, the Comet Discount Program, and free bluebooks. Further information may be obtained from the Student Government Offices in the Student Union (SU Suite 2.4), by calling 972-883-2284, or by going to www.utdallas.edu/student/sg.

Student Health Center

The Student Health Center offers routine medical services and treatment to all currently enrolled students who have paid the medical fee and are attending classes. Services include physicals, diagnosis and treatment of acute illnesses and injuries, general medical problems, gynecological problems, treatment of stabilized chronic illnesses, allergy injections, and limited immunizations. Care providers include Nurse Practitioners and a Staff Physician. While there is no out-of-pocket cost to students for most services, there are charges for laboratory services, medications, and specific procedures provided to individual students. Such charges incurred by students who are covered by the UT Student Health Insurance Plan are billed directly to the insurance company. Students not covered by this plan must pay for services at the time they are provided. The Student Health Center also provides information on the prevention and transmission of HIV infection and AIDS, and offers related testing and education programs. Students are also encouraged to be current on all recommended immunizations.

All services or treatment obtained from medical facilities other than the Student Health Center are the responsibility of the individual student. The staff at the Student Health Center can make referrals to off-campus medical providers as appropriate.

All medical services and records of the UT Dallas Student Health Center are held confidential to the extent permitted by law and are governed by the Family Educational Rights and Privacy Act, the Texas Open Records Act, and Article 5561(h), Vernon’s Annotated Texas Civil Statutes. The Student Health Center is located in the Student Services Building, SSB 4.700. Call 972-883-2747 for more information or go to www.utdallas.edu/healthcenter.

Bacterial Meningitis Vaccination Requirement

Per State legislation effective January 1, 2012, all entering Texas college students must receive a vaccination or booster (if the vaccination is five years old) against bacterial meningitis before enrollment in accordance with Texas Education Code, Section 51.9192.

The vaccine or booster is required for entering students at Texas public and private colleges, living both on- and off-campus.

- An entering student is a new student or a student who has had a break of enrollment for one or more fall or spring semesters. Summer semester is not included as a break in enrollment.
- Transfer students are considered entering students. Transfer students may request an official memo stating proof of vaccination (within the last five years) from their previous institution and submit with the vaccination requirement form.
• Students who are enrolled only in online courses are exempt if they supply an online exemption form.
• Entering students 22 years of age or older are exempt.

The student, or parent or guardian of the student, must provide a meningococcal meningitis vaccine requirement form with an official immunization record or other required documentation listed on the form, showing the student has received the bacterial meningitis vaccination or booster during the five-year period prior to enrollment, and not less than 10 days before the first day of classes.

Students opting to decline the vaccination for bacterial meningitis for reasons of conscience, including religious belief, should request an affidavit through the Texas Department of State Health Services.

Entering students will be unable to register until the paperwork is received and reviewed. The Office of the Registrar sends electronic notifications to students about the vaccination or booster requirement until the paperwork is received.

Mail proof of bacterial meningitis vaccination and form to the following address:
Office of the Registrar, SSB 13
The University of Texas at Dallas
800 West Campbell Road
Richardson, TX 75080-3021
OR
email bacterial meningitis vaccination documentation to the Office of the Registrar.

Questions concerning the bacterial meningitis requirement and forms should be directed to the Office of the Registrar, 972-883-2342 or go to www.utdallas.edu/student/registrar.

Hepatitis B Vaccination Requirement
A Hepatitis B vaccination is required for students enrolled in a course of study that involves potential exposure to human or animal blood or bodily fluids in accordance with Texas Education Code, Section 51.933.

Mandatory Tuberculosis Screening for International Students
• Tuberculosis (TB) screening is required for all persons born outside the United States, regardless of the status of their application, prior to registering for their first semester at UT Dallas. (Note: Being granted the resident tuition rate does NOT exempt an international student from this requirement.)
• Screening for TB must be administered, regardless of prior BCG vaccination, no more than (6) months prior to the first day of class.
• The only acceptable TB screening option is the Interferon Gamma Release Assay (IGRA) blood test (T-Spot). A TB skin test will NOT be accepted.
• The T-Spot test must be administered and interpreted in the United States by a licensed medical provider.
• International students who do not complete a TB screening or who do not submit the appropriate documentation will NOT be allowed to register for classes.
• The T-Spot test is available through the on-campus Student Health Center at a reasonable cost.

Appropriate documentation secured from a U.S. licensed medical provider may be sent to the following address:
Recommended Immunizations

The following vaccines are recommended but not required:

- Hepatitis A and B
- Human Papillomavirus (HPV)
- Influenza (flu)
- Measles, mumps, rubella (MMR) - 2 doses (required for international students)
- Tetanus, diphtheria, pertussis (Tdap)
- Varicella (chicken pox)

For more information, please visit www.utdallas.edu/healthcenter/immunizations.

Student Health Insurance

The University of Texas at Dallas Student Health Insurance Office, under the direction of the Student Health Center, provides unique and confidential health insurance advising services for UT Dallas students. Health insurance is available to all students at UT Dallas and is required of all international students (students who are not U.S. Citizens, U.S. Permanent Residents, Asylees, Refugees or undocumented aliens). All international students are assessed the Student Health Insurance (SHI) fee at the time of registration for classes. International students are responsible to pay the fee unless they apply for and are granted a waiver based on documentation of other comparable insurance coverage. Contact the Student Health Insurance Office for more information at 972-883-2747 or on the web at www.utdallas.edu/healthcenter/insurance.

Student Leadership Programs

Student Leadership Programs, offered through Student Development, help students to develop and enhance competence and self-knowledge as it pertains to leadership in a global society. Students have the opportunity to participate in two certificate tracks, workshops, webinars, and retreats and conferences. For more information call 972-883-2242 or go to www.utdallas.edu/leadership.

Student Media

The award-winning student newspaper of UT Dallas, The Mercury, publishes biweekly on Mondays throughout the school year. The newspaper offers paid positions for writers, editors, graphic designers, and photographers.

Radio UT Dallas, the student-run Internet radio station, features an eclectic and freeform mix of music and original programming including news and talk shows. College Music Journal has recognized Radio UTD as one of the best Internet radio stations in the United States.
AMP, a student opinion magazine that focuses on student life, global politics, arts, events, and social commentary, publishes once per month during the fall and spring semesters.

UTD TV, a web-based television station provides a medium for broadcasting news, entertainment shows, and other content produced by students, staff and faculty.

Student Organization Center

The Student Organization Center (SOC) helps UT Dallas students become more connected to campus life. SOC provides programming and services for registered student organizations and for students interested in participating in the many activities at UT Dallas. Visit us in the Student Union (SU 2.416) or go to www.utdallas.edu/sof.

Student Organizations

Registered student organizations provide the major means by which students can connect to campus life while developing friendships, interests, talents, and leadership skills. There are over 250 student organizations at UT Dallas that cater to a variety of interests, such as academic and honor groups, service clubs, religious groups, ethnic groups, and special interest groups. Detailed information on the groups and guidelines for forming new organizations is available in the Student Organization Center (Student Union, 2.416). For additional information call 972-883-6551 or go to www.utdallas.edu/sof.

Student Success Center

The Office of Student Success operates the Student Success Center, which offers assistance to students in the areas of writing, mathematics, communication, multiple science fields, reading, study skills, and other academic disciplines. These services are available through individual and small group appointments, workshops, short courses, and a variety of online and instructional technologies. All students enrolled at UT Dallas are eligible for these services.

The Math Lab gives short-term and semester long support for a variety of introductory and advanced mathematics courses. Students may drop in to visit with a math tutor on a regular basis. Comet card is required.

The Writing Center offers a collaborative learning environment for one-to-one and small group assistance with general and advanced writing assignments and overall writing skills. Scheduling an appointment is strongly recommended, but walk in appointments are possible if a tutor is available.

The Peer Tutoring program offers free tutoring assistance in multiple locations for many of the historically challenging undergraduate subjects at UT Dallas. Tutoring sessions, offered every weekday on a drop-in basis, are one-on-one or in a small group format. The sessions are designed to meet students’ individual questions and needs related to course/subject concepts. All peer tutors are current UT Dallas students who made an A- or better in the course and have a strong faculty/staff recommendation. Students should check the Student Success Center website each semester for subject offerings and session times.

The Peer-Led Team Learning (PLTL) program provides an active, engaged learning experience for students who meet in small groups once a week with a Peer Leader who helps guide them through potentially difficult gateway courses. Students that attend sessions regularly typically earn a half to a whole letter grade higher than students that do not participate in the PLTL program.

Supplemental Instruction (SI) provides free, peer-facilitated weekly study sessions for students taking historically difficult courses. SI sessions encourage active, collaborative learning based on critical thinking and transferable study skills. SI leaders attend lectures, take notes, and read assigned material just like the enrolled students. Students should check the SSC website for subject and session times.

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The Communication Lab (CommLab) offers one-on-one and group consultations where you will gain practical feedback for improving oral and group presentations.

Success Coaches are available for individual student appointments to discuss study skills, time management, note taking, test taking and preparation, and other success strategies.

The Student Success Center’s main office is located in the McDermott Library Building and can be contacted by calling 972-883-6707 or by sending an email to the Center.

Student Transition Programs

The Student Transition Programs Office provides programming, services, involvement opportunities and websites specific to the sophomore, junior and senior student populations at UT Dallas. Programs include Major Investigations (SOYE), Career Connections (JRYE), and Countdown to Commencement (SRYE). The Student Transition Programs Office is located in the Student Services Building, 3.600, and can be contacted at 972-883-6147 or on the web at www.utdallas.edu/transition.

Student Union

The Student Union is a place for students to hang out, grab a bite to eat, and just relax. Open seven days a week, it includes a TV lounge, study lounges, pool tables, ping-pong tables, the Comet Café, which includes a variety of food options, The Pub, and a number of meeting rooms that can be reserved for organization meetings, as well as outside meeting areas on the mall in front of the building.
Student Volunteerism

The Student Volunteerism Program offers students a variety of opportunities to lend their time and talents in service to the communities of UT Dallas, North Central Texas, and beyond. Programs include Alternative Spring Break, Viva! Volunteer, Earth Week, UT Dallas Community Garden, OSV Student Leadership Program, recurring volunteer events, and year-round donation drives. The Office of Student Volunteerism is located in the Student Services Building (SSB 3.600) and can be contacted at 972-883-6393 or on the web at www.utdallas.edu/volunteer.

Student Wellness Center

The Student Wellness Center promotes health, fitness, and responsible personal choices among UT Dallas students through educational programs, resources, and individual consultations. Programs include alcohol and other drug awareness, sexual responsibility, suicide awareness, nutrition and fitness, and men's and women's health. The Student Wellness Center is located in the Student Services Building, SSB 4.500, and can be contacted at 972-883-4275 or on the web at www.utdallas.edu/studentwellness.

Textbooks

The University Bookstore stocks all required textbooks and software. Textbook information for specific courses is available within the CourseBook web portal at coursebook.utdallas.edu. Textbook information includes International Standard Book Number (ISBN) and retail price information; data is collected from the campus bookstore on a regular basis. For additional assistance, click on the help tab within coursebook.utdallas.edu.

The University of Texas at Dallas advises students that they are not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer. (Texas Education Code 51.9705; 19 TAC 4.215)

Transfer Student Services

The Transfer Student Services Office provides support to new and returning transfer students to ensure their successful transition into UT Dallas. Programs include Transfer Orientation in Spring, Summer and Fall, Transfer Thirsty Thursday, Welcome Wednesday and more. Transfer Student Services also supports Tau Sigma National Honor Society for Transfer Students. The Transfer Student Services Office is located in the Student Services Building, 3.600, and can be contacted at 972-883-6147 or on the web at www.utdallas.edu/transferservices.

University Housing Information

Students are provided several affordable on-campus housing options. All on-campus housing is reserved for UT Dallas students.

Locations include University Village apartments and University Commons residence halls, a community owned by UT Dallas.

In accordance with university policy, all freshmen who choose to live on campus are required to live in University Commons residence halls.
UT Dallas does not currently check criminal history records for on-campus housing students. The university is entitled to obtain criminal history information that relates to a student or applicant who applies to reside in on-campus housing and will notify the individual if the information is used to deny them housing. Texas Government Code, Section 411.0945.

For more information please go to www.utdallas.edu/housing or www.utdallas.edu/reslife.

Contact Information:
Residential Life Office
Telephone: 972-883-7340
University Village Apartments Leasing Office
2800 Waterview Parkway Suite #200
Richardson, TX 75080
Telephone: 972-792-9100
Fax: 972-792-9101

General Information

University Libraries

Eugene McDermott Library and the Callier Library support the research, instruction, and community service programs of the University by providing access to information in both print and electronic forms. The libraries consist of over two and a half million items, including more than 71,000 electronic journals, 1 million electronic books, and thousands of media, microforms, and maps.

The McDermott Library is a U.S. government depository. Special collections include the Jaffe Holocaust Collection, the Wineburgh Philatelic Research Library, the Louise B. Belsterling Collection, the History of Aviation Collection, and the UT Dallas Archives. The Library also has a rare books collection. The libraries provide an ever-expanding digital collection that is available to distance learners. Users connect to these resources through the library portal at www.utdallas.edu/library. Current students have unlimited access to the digital library. The Library is also developing Treasures, a digital institutional repository to showcase the research and scholarship conducted at the university.

Staff members at both locations provide active support for all the people they serve. Librarians consistently hold class and individual instruction on the use of the library, how to conduct research and how to develop information literacy skills. Both McDermott and Callier Library offer students with disabilities a range of services to encourage their independent research.

If McDermott and Callier do not have requested items, library customers can utilize the Interlibrary Loan Service. This service provides students with books or articles from a network of major libraries.

UT Online Consortium

In addition to the online courses listed in the catalog, there are additional offerings that students may take through the UT Online Consortium (UTOC). The UTOC is the centralized support center for online education throughout The University of Texas System. On the website (http://www.utcoursesonline.org/) you
will find a listing of programs and courses, enrollment services, Texas Information System (TIS), academic calendars, campus contacts, course login information, and learning resources. Designated contacts at each campus are available to assist you, as are the student services support staff of the UTOC. With questions please call toll-free: 1-888-TEXAS-16 (1-888-839-2716).

Veteran Services Center

The UT Dallas Veteran Services Center serves veterans, reservists, eligible dependents, and active duty military students attending UT Dallas. The VSC promotes veteran-specific opportunities and connects students to on- and off-campus resources. The space includes a study area with computing stations and lounge for veterans to connect with each other. The VSC is located on the lower level of the Eugene McDermott Library (MC 1.204) and is open Monday – Thursday from 8:00 a.m. and Friday from 8:00 a.m. – 5:00 p.m. For more information call 972-883-4913 or go to www.utdallas.edu/veterans.
Appendix I

Rules, Regulations, and Statutory Requirements

A. Student Conduct and Discipline

The University of Texas System (Regents' Rule 50101) and The University of Texas at Dallas have rules and regulations for the orderly and efficient conduct of their business. It is the responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. The University of Texas at Dallas administers student discipline within the procedures of recognized and established due process. Procedures are defined and described in Student Discipline and Conduct, UTDSP5003. Copies of these rules and regulations are available to students in the Office of the Dean of Students where staff are available to assist students in interpreting the rules and regulations (SSB 4.400, 972-883-6391).

A student at the university neither loses the rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state, and local laws as well as the Regents' Rules, university regulations, and administrative rules. Students are subject to discipline for violating its standards of conduct whether such conduct takes place on or off campus or whether civil or criminal penalties are also imposed for such conduct.

1. **Academic Dishonesty.** The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrates a high standard of individual honor in his or her scholastic work.

Academic dishonesty includes, but is not limited to, statements, acts or omissions related to applications for enrollment or the awarding of a degree, and/or the submission of work for academic credit that is not properly cited. As a general rule academic dishonesty involves one of the following acts: cheating, plagiarism, collusion and/or falsifying academic records. Students suspected of academic dishonesty are subject to disciplinary proceedings.

2. **Campus and Residence Hall Solicitations.** In accordance to Regents' Rule, 80103 and the Speech and Expression Assembly policy, UTDSP5001 (see [http://policy.utdallas.edu/utdsp5001](http://policy.utdallas.edu/utdsp5001)), Subchapter B, section 46.07, no solicitation shall be conducted on any property, street, or sidewalk, or in any building, structure, or facility controlled by The University of Texas System (UT System) or UT Dallas, except by the officers or employees of the university, acting in the course and scope of their authority, or by the Student Government, or by a registered student, faculty, or staff organization of this institution. Such activities must be conducted in a manner that:

a. does not disturb any academic programs or administrative activities of the university or any program or activity that is authorized by UT System;

b. does not interfere with entry to or exit from a building, structure, facility or with the flow of pedestrians or vehicular traffic on sidewalks or streets or at places of ingress and egress to and from property, buildings, or facilities;

c. does not harass or intimidate the person or persons being solicited; and

d. does not violate applicable state, federal, or local laws or regulations.

Non-university groups, individuals, or associations are not permitted to solicit, distribute, or circulate any petitions, handbills, or other literature in university buildings or on the grounds.
All solicitations on the UT Dallas campus must conform to the Regents’ Rules and the Speech and Expression Assembly policy, UTDSPP001; copies of which are available in the offices of the President, Executive Vice President and Provost, Vice Presidents, and Deans, and in numerous other administrative offices and the library.

Prior authorization to conduct solicitations or distribution of materials on campus by registered student organizations or by registered faculty or staff organizations must be obtained through the appropriate offices as outlined in the Speech and Expression Assembly policy, UTDSPP001.

Appropriate responses to violations of the above policy are outlined in the Speech and Expression Assembly policy, UTDSPP001, Subchapter L, section 46.49: (a) students will be reported to the Dean of Students, (b) the Office of the Vice President of Academic Affairs and Provost will handle faculty violations; and (c) staff members should be referred to Human Resources Services.

3. **Hazing.** Hazing, submission to hazing, or failure to report first-hand knowledge of the planning or occurrence of specific hazing incidents is prohibited by state law and, in addition to disciplinary actions, is punishable by fines up to $10,000 and confinement in county jail for up to two years. Moreover, any hazing offense that causes the death of another person is a state jail felony. Hazing is defined by state law as, "... any intentional, knowing, or reckless act, occurring on or off the campus of an educational institution, by one person alone or acting with others, directed against a student, that endangers the mental or physical health or safety of a student for the purpose of pledging, being initiated into, affiliating with, holding office in, or maintaining membership in an organization.” Any person who reports a specific hazing incident involving a student to the Dean of Students is immune from civil or criminal liability that he/she might otherwise incur as a result of the report. Any persons who have further questions about hazing or activities that may be considered hazing should call the Dean of Students’ office at (972) 883-6391.

4. **Copyrighted Material.** Unauthorized distribution of copyrighted material, including unauthorized peer-to-peer file sharing, may subject students to civil and criminal penalties. All UT Dallas syllabi are required to include, whether in text or a hyperlink, student conduct policies including a copyright notice. This notice directs students to UT Dallas’ Policy Regarding Photocopying Copyrighted Materials (UTDPP1043) and UT System’s copyright website. Further, the University Attorney is identified as the university’s contact for copyright questions or concerns. See www.utdallas.edu/copyright.

5. **Other Disciplinary Situations.** Any student organization is subject to disciplinary action or revocation of registration as a student organization for violation of a rule or regulation of The University of Texas System or The University of Texas at Dallas.

B. **Grievance Procedures**

To the extent provided by applicable law, The University of Texas at Dallas is committed to a policy of nondiscrimination on the basis of age, color, disability, gender, race, religion, sexual orientation, national origin, or veteran status in its provision of services, activities, and programs, and in its treatment of students. Students seeking further information about this policy or related complaint procedures for alleged discrimination or sexual harassment should contact the Dean of Students. The dean will follow the procedures for student grievances that are found in UTDSPP005, Student Grievances Policy.

Sexual harassment is a form of sex discrimination. Such harassment is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature. Suggestions that academic or employment reprisals or rewards will follow the refusal or granting of sexual favors also constitute sexual harassment. The full text of the university’s "Sexual Harassment Policy and Procedure" may be found in the Administrative Policies and Procedures Manual, Section D, D11-115.0.

Any student who perceives that he or she has been subject to any form of discrimination as defined above may file a written complaint with the Dean of Students using the following procedures:

1. The complaint must contain the nature of the alleged discrimination, the date on which the alleged discrimination occurred, and other appropriate information as required by the dean.
2. The dean will refer all complaints that name an employee of the university (including graduate assistants and other student employees) as the offender to the Office of Human Resources for investigation and resolution. When the nature of the complaint is discrimination on the basis of disability, the dean will refer the grievance or complaint to the ADA Coordinator who will investigate the complaint under the procedures given in the Administrative Policies and Procedures Manual, Vol. II A, Section D, page D11-195.0, Americans with Disabilities Act Grievance Policy.

3. With the exceptions noted in subsection (2) above, the student discipline procedure outlined in UTDSP5003 Student Discipline and Conduct will be utilized for complaints that name a student as an alleged offender. Such complaints will be investigated by the dean.

4. As a result of the investigation, the dean will, on the basis of the information presented, determine: a) that the charges of discrimination are without basis, b) that further investigation is required, c) that campus action shall be initiated to alleviate a discriminatory situation, or d) that a hearing will be held.

C. Academic Grievances

Procedures for student grievances are found in university policy UTDSP5005. In attempting to resolve any student grievance regarding grades, evaluations, or other fulfillments of academic responsibility, it is the obligation of the student first to make a serious effort to resolve the matter with the instructor, supervisor, administrator, or committee with whom the grievance originated (hereafter called "the respondent").

Individual faculty members retain primary responsibility for assigning grades and evaluations.

PROCEDURES TO APPEAL ACADEMIC DECISIONS

(a) The appeal procedures defined in this section apply to an unresolved grievance concerning some aspect of the student's academic standing at UT Dallas. The intent is to address the grievance of the student in a prompt and orderly fashion. A grievance means a dispute concerning some aspect of the student's academic standing arising from an administrative or faculty decision that the student regards as incorrect or unjust. Grievances include, but are not limited to, disputes over grades, application of degree plan, graduation/degree program requirements, and thesis and dissertation committee and/or adviser actions or decisions. Grievances, as defined in this section, do not include the right to appeal the termination of employment of a teaching assistant or research assistant during the term of the student's appointment. That appeal process is defined and described in UT Dallas Policy UTDPP1075 University Policies Related to Graduate Student Teaching Assistants and Graduate Student Research Assistants.

(b) A grievance regarding academic concerns will be considered in the following manner:

1. Initial Consideration of Grievance In attempting to resolve any student grievance falling within the scope of this policy, it is the obligation of the student first to make a serious and prompt effort to resolve the matter through discussion with the instructor, supervisor, administrator, or committee chair with whom the grievance originated (hereafter called "the respondent") within sixty (60) calendar days after the date on which the decision was first rendered.

2. Appeal to the Department/Program Head If the matter cannot be resolved in discussions between the student and the respondent, the student grievant can submit a written appeal to the respondent's department/program head with a copy to the respondent clearly specifying the basis of the appeal and stating the remedies the student is seeking. This written appeal MUST be submitted no later than the sixty-fifth day after the date on which the decision in dispute was first rendered by the respondent. Within ten business days while classes are in session, the respondent will provide both the student and the department/program head with a written response. The department/program head will have 10 business days to review all submissions and provide a written response to the student and respondent (an extension to this timeline may be granted by the school dean for good cause). In determining the validity of the grievance, the department head should be guided by the principle that the burden is on the grievant to show that the decision is arbitrary and capricious. If the department/program head decides that the grievance be granted, he/she will also provide a decision on how to resolve the dispute.

3. Academic Appeals Panel If the student is dissatisfied with the decision of the department/program head,
the student may submit a written appeal via email or hard copy, within ten business days of the date the
decision was sent, to the dean of the school hosting the course, comprehensive or oral examination with a
copy to the department/program head (an extension to this timeline may be granted by the dean for good
cause). The written appeal by the student to the school dean must clearly state the reasons for the appeal
and remedy sought. The dean will appoint an appeals panel. The appeals panel composition will consist
of an associate dean of the school in which the grievance originated, acting as chair, two faculty members
from the school in which the grievance originated, an associate dean from another school, and a student.
The student selected to serve on the panel will be an undergraduate when the grievance is from an
undergraduate student and will be a graduate student when the grievance is from a graduate student. The
academic panel will review all submissions, obtain additional information and opinions if desired, and
provide the student with a written response within twenty business days while classes are in session of
the receipt of the student's appeal to the school dean. The appropriate dean of graduate or undergraduate
studies will receive a copy of the panel's response. The findings and recommendation of the appeals
panel are final.

(c) All parties involved in an academic appeal will be informed about the final disposition of the appeal.
Copies of these rules and regulations are available to students in the Office of the Dean of Students where
staff are available to assist students in interpreting the rules and regulations.

D. Privacy Act: Student Records

1. The student's university record is established and maintained to provide both the student and the university
with information regarding the student's progress while enrolled at the university. Any student enrolled in the
university has access to and may inspect those records relating to his or her academic progress, to the extent
allowed by the Family Educational Rights and Privacy Act and the Texas Public Information Act. The record is
considered to be confidential and may be released only within the limitations clearly defined by university
regulations and state and federal statutes or with the student's written permission.

2. The university may release directory information which is defined as public information and includes the
student's name, local and permanent address, telephone number, E-mail address, date and place of birth, major
field of study, participation in officially recognized activities and sports, photographs, weight and height of
members of athletic teams, dates of attendance, degrees, awards and honors received, and the most recent
educational agency or institution attended by the student, classification, and expected date of graduation. This
information may be printed in various publications of the university such as the student directory, honors list,
athletic programs, list of graduating students, or similar documents. Additionally, this information may be released
upon request. A student may request that the university not release directory information by completing the
appropriate forms during registration. The student must complete the forms each semester.

3. Student records which the university maintains include official university academic and personal records
relating to scholastic, disciplinary and fiscal matters as well as records maintained by university agencies and
agencies providing services sought voluntarily by students. Students may challenge the contents of educational
records and request corrections to inaccurate or misleading information. Any request for correction or
explanation of record contents should be presented in writing to the person in charge of the office where the
record is maintained.

4. Detailed information pertaining to the content of and handling of student records is contained in the university
policy, Rules on Student Services and Activities of the university's Handbook of Operating Procedures. Students
wishing more information about their rights established under the Family Educational Rights and Privacy Act
should contact the Office of the Registrar, Student Services Building, (972) 883-2342.

5. The Family Educational Rights and Privacy Act does not extend to research papers and theses authored by
students; these documents are available to interested members of the public.

E. Student-Right-To-Know and Campus Security Act (Clery Act)
In compliance with the Student-Right-to-Know and Campus Security Act, The University of Texas at Dallas collects specified information on campus crime statistics, campus security policies, and institutional completion or graduation rates. The university publishes an annual report of campus security policies and crime statistics and distributes copies during registration. The university also publishes an online university profile, including graduation rates (see http://www.utdallas.edu/ospa/stats/UTDProfile.html).

F. Emergency Response, Fire Safety, and Security

Emergency Response: In the event of an emergency or natural disaster the campus community will be notified as prominently as possible through several means of communication. This includes Campus Alert E-mail, the university's website, campus and local media, text-messaging, Fire Alarm Systems, Indoor Warning System and Outdoor Warning System. For policies and procedures, and reporting requirements please visit www.utdallas.edu/ehs/emergency.

Fire Safety: The entire UT Dallas campus fire alarm system is monitored 24-7 through a SimplexGrinnell Information management system. This IMS operates on a fiber optic loop connected to every building fire panel on the Richardson campus. All 30 of UT Dallas' buildings have primary reporting to the University Police and secondary reporting to EHS and EMS. For policies and procedures please visit www.utdallas.edu/ehs/firelifesafety.

Gang-free Zones: Premises owned, rented or leased by The University of Texas at Dallas, and areas within 1,000 feet of the premises are "gang-free" zones. Certain criminal offenses, including those involving gang-related crimes, will be enhanced to the next highest category of offense if committed in a gang-free zone by an individual 17 years or older. See Texas Penal Code, Section 71.028.

Missing Student Notification: The purpose of the UT Dallas Missing Persons Policy is to establish procedures for the university's response to reports of missing students as required by the Higher Education Opportunity Act of 2008. This policy applies to students who reside in on-campus housing. For purposes of this policy, a student may be considered a "missing person" when he or she is absent from the university for more than 24 hours without any known reason. A student may also be deemed missing when his/her absence is contrary to his/her usual pattern of behavior and/or unusual circumstances may have caused the absence. Such circumstances could include, but not be limited to, a report or suspicion that the missing person may be the victim of foul play, has expressed suicidal thoughts, is drug dependent, or has been with persons who may endanger the student's welfare.

All residential students will have the opportunity to designate a confidential contact to be notified by the university no more than 24 hours after the student is determined missing. Instructions will be provided on how to register that person's contact information. Residential students' contact information will be registered confidentially, will be accessible only to authorized UT Dallas officials, and may not be disclosed except to law enforcement personnel in furtherance of a missing person investigation.

All reports of missing students must be directed to the UT Dallas Police Department, which shall investigate each report and make a determination about whether the student is missing. In addition, no later than 24 hours after a student is determined missing, UT Dallas will notify the Richardson Police Department, unless the Richardson Police Department was the entity that determined the student to be missing. At that time, if the missing student is under the age of 18 and not emancipated, UT Dallas will also notify the student's custodial parent or guardian.

G. Use of Facilities

Pursuant to the general authority of Texas Education Code Chapter 65, and the specific authority of Texas Education Code Chapter 51, the Board of Regents of The University of Texas System, in Series 80101-80110 of the Rules and Regulations, promulgates rules relating to the use of buildings, grounds, and
facilities for purposes other than programs and activities related to the role and mission of the UT System and the component institutions.

The property, buildings, or facilities owned or controlled by the UT System or UT Dallas are not open for assembly, speech, or other activities as are the public streets, sidewalks, and parks. The responsibility of the Board of Regents to operate and maintain an effective and efficient system of institutions of higher education requires that the time, place, and manner of assembly, speech, and other activities on the grounds and in the buildings and facilities of the UT System or UT Dallas be regulated.
A Synopsis of Graduate Degree Program Revisions

The Graduate Council has approved the revisions made to the graduate degree programs on April 1, 2015.

Graduate Programs List

- Created an entry for the School of Arts, Technology, and Emerging Communication (ATEC).
  - Relocated the MA, MFA, and PhD degree programs in Arts and Technology and the MA in Emerging Media and Communication degree to the ATEC school from the School of Arts and Humanities (ARHM).
- The MS in Energy Management, effective in fall 2015, has been added to the Naveen Jindal School of Management (JSOM) programs listing.

Course Prefix List by School

- Created an entry for the ATEC school.
  - Relocated the prefixes of ATEC and EMAC to the ATEC school from the School of Arts and Humanities (ARHM).
- Added the BUAN and ENGY prefixes within the JSOM listing.
- Dr. Stillman requested that HCS be renamed from Human Development and Communication Development because that the name belonged to a program no longer in existence. The new name is Behavioral and Brain Sciences and was approved by Graduate Council on April 1, 2015.
- Corrected some misspellings, including correcting the prefix name for PSYC from Psychology to Psychological Sciences.

Course Prefix List by Subject

- Revised the school name of ARHM to ATEC for the ATEC and EMAC prefixes.
- Added the BUAN and ENGY prefixes within the JSOM listings.
- The HCS name was renamed from Human Development and Communication Development to Behavioral and Brain Sciences,
• Corrected some misspellings, including correcting the prefix name for PSYC from Psychology to Psychological Sciences.

Graduate Degree Programs
• All graduate degree programs were reviewed and revised as necessary in order to improve consistent and standardized wording. Errors, including any misspellings, were corrected.
• Graduate degree programs’ semester credit hours were reviewed and revised accordingly when needed for clarity.
• Each degree program will include a faculty list that is being developed by the Provost’s Technology Group; the faculty lists will be populated in the web catalog phase.
• Course information data was updated as appropriate throughout all graduate programs, such as removing deactivated courses, and revising course titles, course prefixes, and course numbers.

School of Arts and Humanities (ARHM)
• The school’s program preface was revised by having the ATEC’s degree programs (ATEC and EMAC) relocated to the School of Arts, Technology and Emerging Communication (ATEC).
• ATEC’s graduate programs were removed from the ARHM’s catalog pages.
• The Humanities’ graduate program was rearranged to improve the logical flow of information.

School of Arts, Technology, and Emerging Communication (ATEC)
• ATEC created a new preface for the school program.
• The MA, MFA, and PhD degree programs in Arts and Technology and the MA in Emerging Media and Communication program were relocated to the ATEC’s catalog pages.
• The school also expanded their admission requirements, such as providing letters of recommendation, submitting essays and portfolios.

School of Behavioral and Brain Sciences (BBSC)
• Fast track language within the MS in Applied Cognition and Neuroscience was removed.
• Course listings were slightly revised for some of the graduate programs.
School of Economic, Political and Policy Sciences (EPPS)
- Course listings were slightly revised for some of the graduate programs.
- The Criminology graduate programs were revised to clarify the qualifying methods examination and comprehensive examination language.
- The Political Science graduate programs’ significant revisions included the updating of their mission statement, objectives, admissions requirements, degrees, and courses.
- Public Affairs made significant revisions to their graduate programs. They updated their dissertation research options, and their course listings within their specific concentrations, and made additional changes:
  - Renamed concentration: Personnel Policy to Human Capital
- Fast track language in the MS in Applied Sociology was removed.
- There were minimal changes to the certificate programs.

Erik Jonsson School of Engineering and Computer Science (ENCS)
- Most of the ENCS graduate programs will “roll over” with no to minimal revisions.
- The Computer Science department created a new track, Interactive Computing Track, for their core requirements; the new track includes a new list of courses.
- The Electrical Engineering department clarified the language in their PhD degree requirements.
- Course listings were slightly revised for some of the graduate programs.

School of Interdisciplinary Studies (GENS)
- No revisions were submitted for the GENS degree programs, and they will “roll over” to the 2015 catalog other than the updated course data.

Naveen Jindal School of Management (JSOM)
- The MS in Energy Management, effective in fall 2015, has been added to the Naveen Jindal School of Management (JSOM) programs listing within their preface.
- JSOM revised their Management in Business Administration (MBA) concentrations with the following updates.
  - Added new concentrations:
    - Business Analytics
    - Energy Management
- Internal Audit
- Systems Engineering and Management

- Renamed concentrations:
  - Healthcare Administration to Healthcare Management
  - Strategy to Strategic Management

- Removed concentrations:
  - Organizations

- The catalog copy was added for the MS in Energy Management.
- Existing academic certificates for the Lean Six Sigma in Healthcare Quality were added to the MS in Healthcare Management catalog copy.
- JSOM also did a similar revision for their Management and Administrative Sciences (MAS) concentrations.
  - Added new concentrations:
    - Business Analytics
    - Energy Management
    - Internal Audit
    - Systems Engineering and Management
  - Renamed concentrations:
    - Healthcare Administration to Healthcare Management
    - Strategy to Strategic Management
    - Removed concentrations:
      - Leadership in Organizations
    - Organizations

- The MS in Marketing degree’s course listings were significantly revised. The program also added two “focus” areas, Analytics Focus and Computer Insights Focus within in the Marketing Analytics and Market Research Track.

- The semester credit hours were corrected within the PhD in International Management Studies from 90 to 78.
- JSOM corrected some semester credit hours disparity within their Executive Programs and made additional revisions to the course listings.
- JSOM also changed the concentrations in the Executive Education program for the MS-SEM curriculum. They rearranged the list alphabetically.
  - Added new concentrations:
    - Optimization Theory and Operations Research
  - Renamed concentrations:
    - Enterprise Systems to Enterprise and Data Management Systems
- Energy, Resources and Infrastructure to Energy and Infrastructure Systems
- Entrepreneurship and Innovation to Entrepreneurship and Innovation Management
- Global Supply Chain Management to Global Supply Chain and Operations Management
- Healthcare Services to Healthcare and Biomedical Systems
- Information Assurance and Cybersecurity to Cybersecurity and Information Assurance
- Telecom and IT Networks to Telecom, IT and Multimedia Networks
- Transportation to Transportation Systems

- Removed concentrations:
  - Arts and Technology and Web Media
  - Complex Brain, Biological and Behavioral
  - Macroeconomics and Finance

**School of Natural Sciences and Mathematics (NS&M)**
- The department name of Chemistry has been revised to “the department of Chemistry and Biochemistry” as appropriate within the NS&M degree programs, especially the Chemistry degree program.
- Most of the NS&M graduate programs will “roll over” with no to minimal revisions, except for the Biological Sciences
- The Biological Sciences department updated their program, such department objectives, facilities, and clarified admissions requirements and degree objectives.

**Graduate Instruction in Education Program**
- The Teacher Education Certification Program has minimal revisions.
The University of Texas at Dallas offers graduate programs across its seven schools. Students may view semester class schedules at coursebook.utdallas.edu. Class syllabi and faculty vitae are available at coursebook.utdallas.edu.

**School of Arts and Humanities**
- Master of Arts in Arts and Technology
- Master of Fine Arts in Arts and Technology
- Master of Arts in Emerging Media and Communication
- Master of Arts in History
- Master of Arts in Humanities
- Master of Arts in Humanities Major in Aesthetic Studies
- Master of Arts in Humanities Major in History of Ideas
- Master of Arts in Humanities Major in Studies in Literature
- Master of Arts in Latin American Studies
- Doctor of Philosophy in Arts and Technology
- Doctor of Philosophy in Humanities
- Doctor of Philosophy in Humanities Major in Aesthetic Studies
- Doctor of Philosophy in Humanities Major in History of Ideas
- Doctor of Philosophy in Humanities Major in Studies in Literature

**Certificates Offered**
- Holocaust Studies Certificate

**School of Arts, Technology, and Emerging Communication**
- Master of Arts in Arts and Technology
- Master of Fine Arts in Arts and Technology
- Master of Arts in Emerging Media and Communication
- Doctor of Philosophy in Arts and Technology

**School of Behavioral and Brain Sciences**
- Master of Science in Applied Cognition and Neurosciences
- Master of Science in Communication Disorders
• Master of Science in Human Development and Early Childhood Disorders
• Master of Science in Psychological Sciences
• Doctor of Audiology
• Doctor of Philosophy in Cognition and Neuroscience
• Doctor of Philosophy in Communication Sciences and Disorders
• Doctor of Philosophy in Psychological Sciences

School of Economic, Political and Policy Sciences
• Master of Arts in Political Science
• Master of Arts in Political Science - Constitutional Law Studies
• Master of Arts in Political Science - Legislative Studies
• Master of Public Affairs
• Master of Public Policy
• Master of Science in Applied Sociology
• Master of Science in Criminology
• Master of Science in Criminology (Online)
• Master of Science in Economics
• Master of Science in Geospatial Information Sciences
• Master of Science in International Political Economy
• Executive Master of Science in Justice Administration and Leadership
• Doctor of Philosophy in Criminology
• Doctor of Philosophy in Economics
• Doctor of Philosophy in Geospatial Information Sciences
• Doctor of Philosophy in Political Science
• Doctor of Philosophy in Public Affairs
• Doctor of Philosophy in Public Policy and Political Economy

Certificates Offered
• Economic and Demographic Data Analysis Certificate
• Geographic Information Systems (GIS) Certificate
• Geospatial Intelligence (GeolInt) Certificate
• Local Government Management Certificate
• Nonprofit Management Certificate
• Program Evaluation Certificate
• Remote Sensing Certificate

Erik Jonsson School of Engineering and Computer Science
• Master of Science in Biomedical Engineering
• Master of Science in Computer Engineering
• Master of Science in Computer Science
• Master of Science in Electrical Engineering
• Master of Science in Materials Science and Engineering
• Master of Science in Mechanical Engineering
• Master of Science in Software Engineering
• Master of Science in Systems Engineering and Management
• Master of Science in Telecommunications Engineering
• Doctor of Philosophy in Biomedical Engineering
• Doctor of Philosophy in Computer Engineering
• Doctor of Philosophy in Computer Science
• Doctor of Philosophy in Electrical Engineering
• Doctor of Philosophy in Geospatial Information Sciences
• Doctor of Philosophy in Materials Science and Engineering
• Doctor of Philosophy in Mechanical Engineering
• Doctor of Philosophy in Software Engineering
• Doctor of Philosophy in Telecommunications Engineering

Certificates Offered

• Cybersecurity Systems Certificate
• Information Assurance Certificate
• Systems Engineering Certificate
• Systems Management Certificate

School of Interdisciplinary Studies

• Master of Arts in Interdisciplinary Studies

Certificates Offered

• Post-Baccalaureate Program for Teacher Certification

Naveen Jindal School of Management

• Master of Business Administration
• Master of Science in Accounting
• Master of Science in Business Analytics
• Master of Science in Energy Management
• Master of Science in Finance
• Master of Science in Healthcare Management - Executive Track
• Master of Science in Healthcare Management - Professional Track
• Master of Science in Information Technology and Management
• Master of Science in Innovation and Entrepreneurship
• Master of Science in International Management Studies
• Master of Science in Management and Administrative Sciences
• Master of Science in Marketing
• Master of Science in Supply Chain Management
• Master of Science in Systems Engineering and Management
• Doctor of Philosophy in International Management Studies
• Doctor of Philosophy in Management Science
• Executive Education Programs

Certificates Offered

• Graduate Certificate in Business Intelligence and Data Mining
• Graduate Certificate in Corporate Innovation
• Graduate Certificate in Enterprise Systems
• Graduate Certificate in Executive and Professional Coaching
• Graduate Certificate in Healthcare Information Technology
• Graduate Certificate in Lean 6 Sigma Green Belt in Healthcare Quality
• Graduate Certificate in Lean 6 Sigma Yellow Belt in Healthcare Quality
• Graduate Certificate in New Venture Entrepreneurship
• Graduate Certificate in Product Lifecycle and Supply Chain Management
• Graduate Certificate in Project Management
• Graduate Certificate in Systems Engineering
• Graduate Certificate in Systems Management

School of Natural Science and Mathematics

• Master of Arts in Teaching in Science Education
• Master of Arts in Teaching in Mathematics Education
• Master of Science in Actuarial Science
• Master of Science in Bioinformatics and Computational Biology
• Master of Science in Biotechnology
• Master of Science in Chemistry
• Master of Science in Geosciences
• Master of Science in Geospatial Information Sciences
• Master of Science in Mathematics - Specialization in Applied Mathematics
• Master of Science in Mathematics - Specialization in Engineering Mathematics
• Master of Science in Mathematics - Specialization in Mathematics
• Master of Science in Mathematics - Specialization in Statistics
• Master of Science in Molecular and Cell Biology
• Master of Science in Physics
• Doctor of Philosophy in Chemistry
• Doctor of Philosophy in Geosciences
• Doctor of Philosophy in Geospatial Information Sciences
• Doctor of Philosophy in Mathematics - Specialization in Applied Mathematics
• Doctor of Philosophy in Mathematics - Specialization in Statistics
• Doctor of Philosophy in Molecular and Cell Biology
• Doctor of Philosophy in Physics

Certificates Offered

• Teacher Education Certification

1. Program jointly offered by the School of Economic, Political and Policy Sciences, Erik Jonsson School of Engineering and Computer Science, and School of Natural Sciences and Mathematics.
2. Program jointly offered by the School of Economic, Political and Policy Sciences and School of Natural Sciences and Mathematics.
3. Program offered jointly by the Erik Jonsson School of Engineering and Computer Science and the Naveen Jindal School of Management.
List of Graduate Courses by School

Click on the desired course prefix to view course descriptions

### School of Arts and Humanities

<table>
<thead>
<tr>
<th>Course Prefix</th>
<th>Prefix Name</th>
</tr>
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<tbody>
<tr>
<td>HIST</td>
<td>History</td>
</tr>
<tr>
<td>HUAS</td>
<td>Humanities - Aesthetic Studies</td>
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<tr>
<td>HUHI</td>
<td>Humanities - History of Ideas</td>
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<tr>
<td>HUMA</td>
<td>Humanities</td>
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<tr>
<td>HUSL</td>
<td>Humanities - Studies in Literature</td>
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<tr>
<td>LATS</td>
<td>Latin American Studies</td>
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### School of Arts, Technology, and Emerging Communication

<table>
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<th>Course Prefix</th>
<th>Prefix Name</th>
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<tbody>
<tr>
<td>ATEC</td>
<td>Arts and Technology</td>
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<tr>
<td>EMAC</td>
<td>Emerging Media and Communication</td>
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### School of Behavioral and Brain Sciences

<table>
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<tr>
<th>Course Prefix</th>
<th>Prefix Name</th>
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<tbody>
<tr>
<td>ACN</td>
<td>Applied Cognition and Neuroscience</td>
</tr>
<tr>
<td>AUD</td>
<td>Audiology</td>
</tr>
<tr>
<td>COMD</td>
<td>Communication Disorders</td>
</tr>
<tr>
<td>HCS</td>
<td>Behavioral and Brain Sciences</td>
</tr>
<tr>
<td>HDCD</td>
<td>Human Development and Early Childhood Disorders</td>
</tr>
<tr>
<td>PSYC</td>
<td>Psychological Sciences</td>
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</tbody>
</table>

Comment [MV1]: Rename requested by Dr. Stillman, 3-28-15 because HCS stands for Human Development and Communication Sciences. However, that terminology belonged to a program no longer in existence. Approved by Graduate Council, 4-1-15, to rename prefix to Behavioral and Brain Sciences.

Deleted: ATEC

Deleted: Human Development and Communication Sciences

Deleted: Psychology
**Erik Jonsson School of Engineering and Computer Science**

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<tr>
<th>Course Prefix</th>
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<tr>
<td>BMEN</td>
<td>Biomedical Engineering</td>
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<tr>
<td>CE</td>
<td>Computer Engineering</td>
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<tr>
<td>CS</td>
<td>Computer Science</td>
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<tr>
<td>ECSC</td>
<td>Engineering and Computer Science COOP</td>
</tr>
<tr>
<td>EEbm</td>
<td>Electrical Engineering: Biomedical Applications of Electrical Engineering</td>
</tr>
<tr>
<td>EECS</td>
<td>Electrical Engineering: Control Systems</td>
</tr>
<tr>
<td>EECT</td>
<td>Electrical Engineering: Circuits and Systems</td>
</tr>
<tr>
<td>EEDG</td>
<td>Electrical Engineering: Digital Systems</td>
</tr>
<tr>
<td>EEGR</td>
<td>Electrical Engineering - Graduate</td>
</tr>
<tr>
<td>EEMF</td>
<td>Electrical Engineering: Solid State Devices &amp; Micro Sys Fabric</td>
</tr>
<tr>
<td>EEOp</td>
<td>Electrical Engineering: Optical Devices, Materials &amp; Systems</td>
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**School of Economic, Political and Policy Sciences**

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List of Graduate Courses by Course Subject (Prefix)

Click on the desired course prefix to view course descriptions

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Comment [MV1]: Rename requested by Dr. Stillman, 3-28-15 because HCS stands for Human Development and Communication Sciences. However, that terminology belonged to a program no longer in existence. Approved by Graduate Council, 4-1-15, to rename prefix to Behavioral and Brain Sciences. 

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School of Arts and Humanities

The School of Arts and Humanities offers three graduate degree programs: History, Humanities, and Latin American Studies.

Degrees Offered

• Master of Arts in Arts and Technology
• Master of Arts in Emerging Media and Communication
• Master of Arts in History (36 semester credit hours minimum)
• Master of Arts in Humanities (33 semester credit hours minimum)
• Master of Arts in Humanities Major in Aesthetic Studies (33 semester credit hours minimum)
• Master of Arts in Humanities Major in History of Ideas (33 semester credit hours minimum)
• Master of Arts in Humanities Major in Studies in Literature (33 semester credit hours minimum)
• Master of Arts in Latin American Studies (36 semester credit hours minimum)
• Doctor of Philosophy in Arts and Technology
• Doctor of Philosophy in Humanities (60 semester credit hours minimum beyond the master's degree)
• Doctor of Philosophy in Humanities Major in Aesthetic Studies (60 semester credit hours minimum beyond the master's degree)
• Doctor of Philosophy in Humanities Major in History of Ideas (60 semester credit hours minimum beyond the master's degree)
• Doctor of Philosophy in Humanities Major in Studies in Literature (60 semester credit hours minimum beyond the master's degree)
• Certificate in Holocaust Studies (15 semester credit hours)

Faculty

Professors Emeritus: Joan Chandler, Michael S. Simpson, Gerald L. Soliday

Associate Professors: Matt Bondurant, Sean A. Cotter, Michael Farmer, Todd Fechter, John C. Gooch, Charles Hatfield, Shelley D. Kane, Patricia H. Michaelson, Cihan Muslu, Peter Park, Monica Rankin, Venus Reese, latalie Ying, Eric Schiereth, Charissa Terranova, Daniel Wickberg, Michael Wilson

Assistant Professors: Matt Brown, Shari Goldberg, essica C. Murphy, Mark Rosen, Shilyh Warren

Clinical Assistant Professor: Michele Hanlon, Dennis Walsh

Senior Lecturers: Elizabeth (Lisa) Bell, Kelly P. Durbin, Maria A. Engen, Kathryn C. Evans, Dianne Goode, anet Johnson, Thomas M. Lambert, Kathy Ling, Mary Medrick, Greg Met, Christopher (Chris) yan, Monica M. Saba, Jeffrey Schulze, Betty H. Wiesepape

Objectives

The School of Arts and Humanities is committed to interdisciplinary programs that investigate the linkages between the arts and the humanities by fusing critical with creative thinking, theoretical with practical endeavors. Rather than identifying fixed disciplinary areas, the program emphasizes the interrelationship of broad areas of interest.

Within the Graduate Program in the Humanities, most courses are offered within the three main areas of concentration: Aesthetic Studies (HUAS), History of Ideas (HUHI), and Studies in Literature (HUSL), and students seeking the MA or PhD degrees in humanities must take courses in all three areas. The fourth area and other courses, including core courses required of all students, are offered under the rubric Humanities (HUMA).

Within the Graduate Program in History, most courses are offered within History (HIST) and History of Ideas (HUHI) but students may also take courses in Aesthetic Studies (HUAS) and Studies in Literature (HUSL).

Within the Graduate Program in Latin American Studies, required courses are offered within Latin American Studies (ATS) and elective courses are drawn from Aesthetic Studies (HUAS), History (HIST), History of Ideas (HUHI), and Studies in Literature (HUSL).

All our graduate programs are designed to provide students a flexible, interdisciplinary context within which to pursue a program of study built on connections among specific courses and the areas of concentration. Offerings include not only seminars stressing the interpretation and criticism of specific works and issues but also ensembles, studios, and workshops in which the activity of creation and/or performance becomes the primary means of learning.
Facilities

The School of Arts & Humanities provides specialized facilities for academic research and creative expression. The Jonsson Building contains seminar rooms for classes in history, Humanities, and Latin American Studies as well as faculty offices and a graduate student lounge. The Edith O’Donnell Building houses gallery space as well as studios for painting, photography, and other arts. Performance venues for drama and music include the University Theatre and the Jonsson Performance Hall.

Admission Requirements

The university’s general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2014/graduate/admission). Each application is considered on its individual merits.

Normally students applying for admission to the Graduate Program in Humanities should have previous academic degrees (BA or MA) in arts and humanities fields and a grade point average of 3.3 (especially in upper-division undergraduate or graduate work).

Normally students applying for admission to the Graduate Program in History should have a previous degree (BA or BS) in history or related disciplines and a grade point average of 3.3 (especially in upper-division undergraduate work).

Normally students applying for admission to the Graduate Program in Latin American Studies should have a previous degree (BA or BS) in arts and humanities fields, demonstrated interest and experience in Latin American studies, and a grade point average of 3.3 (especially in upper-division undergraduate work).

The School of Arts and Humanities does not require the Graduate Record Examination for admission to graduate programs.

Full-time and Part-time Students

Students can pursue the graduate degrees in humanities on a full- or part-time basis. Full-time students normally register for nine or more semester credit hours per term. The school takes care to accommodate part-time study by scheduling both day and night classes, thus allowing students flexibility in organizing individual schedules.

Degree Requirements

The university’s general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2014/graduate/policies/policy).
The approach to graduate education in the School of Arts and Humanities is flexible. Within the specific degree requirements listed in the graduate catalog, each student plans a program of studies in consultation with an assigned advisor.

Courses meeting degree requirements are normally chosen from the core courses and the areas of concentration within the School of Arts and Humanities. To have courses taken outside the school applied to one of its degrees, students must seek prior approval from the school’s Associate Dean for Graduate Studies. They may also petition to have appropriate transfer courses applied to reduce the required number of semester credit hours for a degree at UT Dallas. The school’s Associate Dean for Graduate Studies may require students with background deficiencies in interdisciplinary work to take additional courses at the undergraduate or graduate level to remedy those deficiencies.

Active involvement in the process of artistic creation and performance is basic to the design of the Aesthetic Studies area of concentration. Therefore, students working in the Graduate Program in the Humanities at the MA level with an emphasis on Aesthetic Studies are required to take at least one ensemble/workshop, and those working toward a PhD with an emphasis on this area are required to take at least one additional ensemble/workshop. Students undertaking creative projects for master’s portfolios or doctoral dissertations must demonstrate their competency as artists by including in their degree plans a minimum number of studios, ensembles, or workshops related to a proposed medium: two for the MA and four for the PhD.

Research

The research interests of the faculty reflect the interdisciplinary mission of the School. In addition to the research activities of individual faculty, five centers and institutes that promote interdisciplinary research are located within the school: The Center for Translation Studies; the Ackerman Center for Holocaust Studies; the Confucius Institute, the Center for the Interdisciplinary Study of Museums, and the Center for Values in Medicine, Science and Technology. Since the School combines the Humanities and the Arts, many faculty are engaged in the creation and performance of artistic works in music, drama, literature, and the visual arts.
School of Arts and Humanities

Graduate Program in History

The program leading to the MA in History is designed both for individuals wishing to enhance their knowledge of and skills at the study of the past and for those intending to pursue a doctorate in a related field. Thus, students seeking the MA in History have two options, a research or a professional option. Students with plans for doctoral study should choose the research option.

Students in the research option must complete thirty-six semester credit hours of coursework, demonstrate reading proficiency in an approved foreign language, and successfully complete a master's thesis.

Master of Arts in History

36 semester credit hours minimum

Major Core Course: 3 semester credit hours

HIST 6301 Historiography

Students are expected to complete this course as early as possible in their programs.

Electives in History (HIST) or History of Ideas (HUHI): 24 semester credit hours

Twenty-four semester credit hours chosen from graduate courses in HIST or HUHI, at least fifteen of which must be in HIST courses. Normally no more than six semester credit hours of independent study are applicable to the degree plan.

Elective Course: 3 semester credit hours

Three semester credit hours in any organized course outside of History (HIST) and History of Ideas (HUHI), but normally in the Humanities Graduate Program.

Thesis: 6 semester credit hours

HIST 6399 Master's Thesis

Having completed thirty semester credit hours of coursework, students must write and present a thesis in history for evaluation by a master's committee.

Students in the professional option in History must complete thirty-six semester credit hours of coursework.
coursework, including HIST 6301 and normally all in organized HIST and HUHI courses. They are not required to complete a thesis or meet a foreign-language requirement, and they receive a terminal degree.
School of Arts and Humanities

Graduate Programs in the Humanities

The Graduate Program in the Humanities (MA, PhD) fosters integrated study and practice of the arts, literature, history and philosophy.

Faculty Program List Placeholder

Master of Arts in Humanities

33 semester credit hours minimum

The program leading to the MA in Humanities is designed both for individuals wishing to enhance their knowledge and skills and for students intending to pursue a doctorate in a humanistic field. Thus, students seeking an MA in Humanities have two options, a research or a professional option. Students with plans for doctoral study should choose the research option.

Students in the research option must complete thirty-three semester credit hours of coursework, demonstrate reading proficiency in an approved foreign language, and successfully complete a portfolio.

• Master of Arts in Humanities Major in Aesthetic Studies
• Master of Arts in Humanities Major in History of Ideas
• Master of Arts in Humanities Major in Studies in Literature

Major Core Course: 3 semester credit hours

HUMA 6300 Interdisciplinary Approaches to the Arts and Humanities

Students are expected to complete this course within their first two semesters of enrollment.

Elective Courses: 30 semester credit hours

Thirty semester credit hours, of which at least twenty-seven semester credit hours are normally in organized courses. Eighteen of these semester credit hours are divided among organized courses in Aesthetic Studies (6 semester credit hours), History of Ideas (6 semester credit hours), and Studies in Literature (6 semester credit hours). The remaining semester credit hours must be taken in the student’s major area of concentration (Aesthetic Studies, History of Ideas, or Studies in Literature), the exception being students pursuing a general Humanities degree. Normally no more than three semester credit hours of independent study are applicable to the degree plan. Independent studies do not count toward the 18 semester credit hour minimum in the
major required for certification to teach at either a two or four year college/university. MA students are restricted to courses numbered at the 5000- and 6000-level.

Foreign Language

The research MA degree requires demonstrated reading proficiency in an approved foreign language. Students can demonstrate proficiency by passing a translation examination in an approved language (e.g., Chinese, French, German, classical Greek, Italian, Latin, or Spanish). Intensive review courses (HUMA 6320 to HUMA 6323) and the advanced language workshops (HUMA 6330 to HUMA 6333), which students may take to prepare for the examination, do not count toward minimum course requirements for the degree. Any students wishing to satisfy the requirement with languages other than those listed above must secure the approval of the school's Associate Dean for Graduate Studies. Students must satisfy the MA language requirement before or as they submit their master's portfolio proposals to the Graduate Studies Committee.

Portfolio

Two substantial pieces of work (two research papers or a creative project plus a scholarly essay) originating in or completed for graduate courses are revised and presented in a portfolio for evaluation by a master's committee.

Students in the professional option in Humanities must complete thirty-three semester credit hours of coursework, all normally in organized courses and distributed as in the research option above. They are not required to complete a portfolio or meet a foreign language requirement, however, and they receive a terminal degree.

Doctor of Philosophy in Humanities

60 semester credit hours minimum beyond the master's degree

The program leading to the PhD in Humanities is designed primarily for individuals who wish to conduct advanced research and to teach at the college level, but it is open to qualified candidates who wish to enhance fully their knowledge and skills. The program provides students with a flexible, interdisciplinary context within which to pursue their studies, built on connections among specific courses and areas of interest. Each student plans an individual program of studies in consultation with an assigned advisor.

- Doctor of Philosophy in Humanities Major in Aesthetic Studies
- Doctor of Philosophy in Humanities Major in History of Ideas
- Doctor of Philosophy in Humanities Major in Studies in Literature

Students seeking a PhD in the Humanities will normally complete a minimum of sixty semester credit hours beyond a master's degree or its equivalent, demonstrate advanced proficiency in a foreign language, pass doctoral field examinations, and complete and defend a dissertation. In addition to meeting the general university criteria for admission to graduate study, students earning an MA degree in the Humanities from UT Dallas must obtain the formal endorsement of their portfolio committees to proceed into the doctoral program. Students who have completed pertinent graduate work at other institutions (thirty semester credit hours of humanities courses, language training, and
written work roughly equivalent to the portfolio here) may qualify for a Master of Arts equivalency upon admission to the graduate program. Students admitted with an MA equivalent must take HUMA 6300, within their first two semesters of enrollment.

Courses: 42 semester credit hours

Forty-two semester credit hours of which at least thirty-three are normally in organized courses. Eighteen of these semester credit hours are divided among organized courses in Aesthetic Studies (6 semester credit hours), History of Ideas (6 semester credit hours), and Studies in Literature (6 semester credit hours). The remaining semester credit hours may be in one or more of the three areas, and normally no more than nine semester credit hours of independent study are applicable to the degree. At least fifteen semester credit hours of doctoral coursework must be taken in organized courses numbered at the 7000-level.

Within the first 18 semester credit hours of coursework applicable to the degree plan, students must successfully complete HUMA 6300, one course in HUAS, one course in HUHI, and one course in HUSL. During the semester within which students complete 18 semester credit hours of coursework applicable to the degree plan, students must successfully pass a qualifying examination in order to proceed in the program.

Foreign Language

Students admitted to the PhD program from universities other than UT Dallas must pass a translation examination in an approved foreign language (e.g., Chinese, French, German, classical Greek, Italian, Latin, or Spanish) during their first year in the PhD program. Part-time students admitted from other universities, however, may have two calendar years to meet this initial requirement. All PhD students must then demonstrate active use of the foreign language at an advanced level in two courses. For this purpose, they may undertake readings and research in regular organized courses, they may meet one half the requirement by taking the Art and Craft of Translation (HUSL 6380) once, or they may arrange to demonstrate active use of the language as part of an independent study. Students wishing to satisfy the requirement with languages other than those listed above must secure the approval of the school's Associate Dean for Graduate Studies.

Students must satisfy the PhD foreign-language requirement prior to taking doctoral field examinations.

Doctoral Field Examinations

After completing all the above requirements, students proceed to the doctoral field examinations, a sequence consisting of three written sections and one oral section. The examining committee, composed of three regular members of the faculty, oversees definition and preparation of the three examination fields within guidelines established by the program. At least three business days before the exams themselves, the faculty members submit examination questions to the Arts and Humanities office, which schedules and administers the examination. The maximum time allowed for a student's completion of the examination sequence is twenty business days.

Dissertation (18 semester credit hours minimum)

Students are formally advanced to PhD candidacy when they have successfully completed the
doctonal field examinations and received final approval for dissertation topics. A student may submit a preliminary dissertation proposal for consideration during the oral section of the doctoral field examination. In any case, after that examination, a four-person supervising committee is formed, normally from the examining committee plus another regular faculty member proposed by the student, to oversee dissertation work. The supervising committee must then approve a formal dissertation proposal before the student submits it to the Graduate Studies Committee for final approval.

Each candidate then writes a doctoral dissertation, which is supervised and defended according to general university regulations. Every student must register for a minimum of nine dissertation semester credit hours in two successive semesters and must maintain continuous enrollment thereafter for at least three semester credit hours during consecutive long semesters until the degree is completed. Any exception to this requirement is granted only by petition to the school's Associate Dean for Graduate Studies.

Certificate in Holocaust Studies

The Ackerman Center for Holocaust Studies

The Certificate in Holocaust Studies is offered to MA and PhD students in the School of Arts and Humanities (A&H) from The Ackerman Center for Holocaust Studies at UT Dallas.

Each student seeking a Certificate in Holocaust Studies must complete 15 graduate semester credit hours in organized classes chosen from the courses below.

Holocaust Certification Courses: 15 semester credit hours

I. Foundation Courses (6 semester credit hours)¹
   - HUHI 6338: The Holocaust
   - HUSL 6378: Literature and the Holocaust

II. German history, philosophy, and literature (3 semester credit hours)¹
   - HUSL 6375: German Literature and Ideas 1870-1960
     or
   - HUSL 6376: Literature of Weimar Germany

III. Jewish Studies (6 semester credit hours)¹
   - HUSL 6374: Modern Jewish Literature across Cultures
   - HUHI 6336: Modernity, Culture, and the Jews

¹. As new courses are developed, students may substitute a required course with the permission of the Center's Director.
Students with Existing Course Credit

Students who have completed a minimum of 9 semester credit hours as of the date of application for the Holocaust Certificate may apply their semester credit hours toward the above requirements as long as those classes have been taken within the last 24 semester credit hours or 12 months of prior coursework. Students must be current in their requirements for graduation, and should be prepared to furnish the Center Advisor a completed, up-to-date advising form from their A·H Academic Advisor.

Certificate Registration

Certificate registration forms are available online at www.utdallas.edu/ah/ackerman. Please contact the Center office at 972-883-2100, or by email: holocauststudies@utdallas.edu if you have any questions. Please submit Certification enrollment forms to the Arts and Humanities Office located at 4.510.
School of Arts and Humanities

Graduate Program in Latin American Studies

The program leading to the MA in Latin American Studies allows students to acquire expertise in multiple aspects of Latin America. Building on the unique interdisciplinary structure of the School of Arts and Humanities, the program has an integrated curriculum that connects literary, historical, cultural, and visual studies. Students seeking the MA in Latin American Studies have two options, a "research" or a "professional" option. Students with plans for doctoral study should choose the research option.

Students pursuing the research option must complete thirty-six semester credit hours of coursework, demonstrate reading proficiency in an approved foreign language, complete an approved internship or study abroad, and successfully complete a capstone project. Normally no more than six semester credit hours of independent study are applicable to the degree plan.

Faculty Program List Placeholder

Master of Arts in Latin American Studies

36 semester credit hours minimum

Major Core Course: 3 semester credit hours

LATS 6300 Introduction to Latin American Studies

Students are expected to complete this course as early as possible in their program.

Prescribed Electives: 15 semester credit hours

Prescribed electives are selected from the following courses:

HIST 6360 Latin American History
HIST 6365 Mexican History
HUAS 6334 Iberian Culture and Music
HUHI 6315 Thought, Culture, and Society in Latin America
HUSL 6373 Topics in Latin American Literature
HUSL 6380 The Art and Craft of Translation
HUSL 6396 Spanish Language, Literature, and Culture

Free Elective Courses: 9 semester credit hours
These three courses may be selected from other courses related to Latin America and/or the students' area of concentration. Students may take approved courses on Latin America topics in the School of Economic, Political, and Policy Sciences and the School of Interdisciplinary Studies.

Free electives must be approved by the Associate Dean for Graduate Studies.

**Internship or Study Abroad: 3 semester credit hours**

Students will also complete a minimum of 3 semester credit hours in an approved study abroad immersion program or a comparable internship program established in partnership with UT Dallas and businesses and/or non-for-profit agencies in the Dallas-Fort Worth area.

- **LATS 6390** Internship in Latin American Studies

**Capstone Project: 6 semester credit hours**

- **LATS 6399** Capstone Project in Latin American Studies

Having completed thirty semester credit hours of coursework, students must write and present a capstone project on a topic of their choice in Latin American Studies, either a research thesis or final project.

**Professional Option in Latin American Studies**

Students pursuing the professional option in Latin American Studies must complete thirty-six semester credit hours of coursework, including **LATS 6300** and 15 semester credit hours of prescribed electives, demonstrate reading proficiency in an approved foreign language, and complete an approved internship or study abroad. They are not required to complete a capstone project and they receive a terminal degree. Normally no more than six semester credit hours of independent study are applicable to the degree plan.
School of Arts, Technology, and Emerging Communication (ATEC)
2015-16 Graduate Catalog

Degree Programs
The School of Arts, Technology, and Emerging Communication (ATEC) offers two graduate degree programs: Arts and Technology and Emerging Media and Communication, ATEC merges the innovation processes of artists, scientists, and engineers and explores experimental models through new technologies and the uses, impact and implications of digital technology for communication, culture and commerce.

**MASTER OF ARTS IN ARTS AND TECHNOLOGY**

The program leading to the MA in Arts and Technology is designed both for individuals engaged in professional practice wishing to enhance their knowledge and skills and for students intending to pursue a doctorate in a related field. It offers advanced studies in interactive media and computer-based arts that emphasize the fusion of creative with critical thinking and theory with practice. Students must complete 36 semester hours of coursework and an advanced project.

**MASTER OF FINE ARTS IN ARTS AND TECHNOLOGY**

The program leading to the MFA in Arts and Technology is designed both for students wishing to teach arts-and-technology-related courses in colleges and universities and for those intending to engage in professional studio or design practice. While maintaining a commitment to interdisciplinary education fusing critical with creative thinking, this program places greater emphasis on the creation and application of computer-based arts and narrative. Students must complete fifty-four semester hours of coursework and a substantial advanced project.

**DOCTOR OF PHILOSOPHY IN ARTS AND TECHNOLOGY**

The Arts and Technology doctoral program is the place of convergence for artists, scholars, engineers and scientists from multiple disciplines willing to explore rigorously and creatively the new territories revealed by the conjunct activities of arts, sciences and technology.

The Arts and Technology research teams and laboratories supporting the doctoral program are engaged in innovative practices in the domains of: cultural sciences, data visualization and representation, modeling and simulation, virtual environments, emerging media and communication, game studies, and sound design.

Students in the doctoral program in Arts and Technology will typically design and develop multidisciplinary research projects addressing questions such as: new modes of interaction with information, social and professional behaviors and relationships in physical and virtual environments, challenges and issues of new modes of expression, representation, and education.

While academia represents an important professional avenue for PhD graduates in Arts and Technology, industry presents numerous career opportunities in such fields as: design, research and development for new media, education, communication, and information technologies.

**MASTER OF ARTS IN EMERGING MEDIA AND COMMUNICATION**

http://catalog.utdallas.edu/2015/graduate/programs/ah
The media landscape has dramatically shifted, and new knowledge, new ways of acquiring knowledge and new collaborative digital skills are required to be successful in this new era. Media makers of all varieties will need to develop the tools and skills necessary to make and understand digital networked media. The Emerging Media and Communication Masters degree attracts students looking to practice new media as well as understand the way it is transforming our culture.

Degrees Offered

- **Master of Arts in Arts and Technology** (36 semester credit hours minimum)
- **Master of Fine Arts in Arts and Technology** (64 semester credit hours minimum)
- **Master of Arts in Emerging Media and Communication** (33 semester credit hours minimum)
- **Master of Arts in History** (36 semester credit hours minimum)
- **Master of Arts in Humanities** (33 semester credit hours minimum)
- **Master of Arts in Humanities Major in Aesthetic Studies** (33 semester credit hours minimum)
- **Master of Arts in Humanities Major in History of Ideas** (33 semester credit hours minimum)
- **Master of Arts in Humanities Major in Studies in Literature** (33 semester credit hours minimum)
- **Master of Arts in Latin American Studies** (36 semester credit hours minimum)
- **Doctor of Philosophy in Arts and Technology**
- **Doctor of Philosophy in Humanities** (60 semester credit hours minimum beyond the master's degree)
- **Doctor of Philosophy in Humanities Major in Aesthetic Studies** (60 semester credit hours minimum beyond the master's degree)
- **Doctor of Philosophy in Humanities Major in History of Ideas** (60 semester credit hours minimum beyond the master's degree)
- **Doctor of Philosophy in Humanities Major in Studies in Literature** (60 semester credit hours minimum beyond the master's degree)
- **Certificate in Holocaust Studies** (15 semester credit hours)

Faculty

Professors: Paul Fishwick, Thomas E. Finehan, Roger Malina, Mihai Nadin.

Professors Emeritus: Associate Professors: Frank Dufour, Monica Evans, Todd Fechter, Scot Gresham, Osanna Guadagno, Midori Itagawa, Maximilian Schich, Dean Terry. Assistant Professors: Ilivia Tanner, Eric Farrar, Sinim Nigh, Eunkyoung (Young) Seo Swearingen, Angela M. Lee, Scott Swearingen, Marjorie Telke

Clinical Associate Professors: Harold (Chip) Wood

Comment [DDC2]: I did the reverse of the A&H degrees. So all the degrees they removed are now active and all the ones they kept I removed.
Clinical Assistant Professor

Senior Lecturers: Elizabeth (Lisa) Bell, Janet Johnson, Janis Johnson

Objectives

The School of Arts, Technology, and Emerging Communication is committed to interdisciplinary programs that investigate the linkages between the arts, sciences, communication, humanities, and technology by fusing critical with creative thinking, theoretical with practical endeavors. Rather than identifying fixed disciplinary areas, the program emphasizes the interrelationship of broad areas of interest.

Within the Graduate Program in Arts and Technology, most courses are offered under the rubric of Arts and Technology (ATEC), but the degree plan also includes courses in Aesthetic Studies (HUAS), History of Ideas (HUHI), and Studies in Literature (HUS:).

Within the Graduate Program in Emerging Media and Communication, most courses are offered under the rubric of Emerging Media and Communication (EMAC), but the degree plan also includes courses in Arts and Technology (ATEC), Aesthetic Studies (HUAS), History of Ideas (HUHI), and Studies in Literature (HUS:).

Within the Graduate Program in the Humanities, most courses are offered within the three main areas of concentration: Aesthetic Studies (HUAS), History of Ideas (HUHI), and Studies in Literature (HUS:), and students seeking the MA or PhD degrees in humanities must take courses in all three areas. The fourth area and other courses, including core courses required of all students, are offered under the rubric Humanities (HUMA).

Within the Graduate Program in History, most courses are offered within History (HIST) and History of Ideas (HUHI), but students may also take courses in Aesthetic Studies (HUAS) and Studies in Literature (HUS:).

Within the Graduate Program in Latin American Studies, required courses are offered within Latin American Studies (LATS) and elective courses are drawn from Aesthetic Studies (HUAS), History (HIST), History of Ideas (HUHI), and Studies in Literature (HUS:).

All our graduate programs are designed to provide students a flexible, interdisciplinary context within which to pursue a program of study built on connections among specific courses and the areas of concentration. Offerings include not only seminars stressing the interpretation and criticism of specific works and issues but also ensembles, studios, and workshops in which the activity of creation and/or performance becomes the primary means of learning.

Facilities

The School of Arts, Technology, and Emerging Communication provides specialized facilities for academic research and creative expression. The Jonsson building contains seminar rooms for classes in history, humanities, and Latin American studies, as well as faculty offices and a graduate student lounge. The Edith O'Donnell building houses gallery space, as well as studios for painting, photography, and other arts. Performance venues for drama and music include the University Theatre and the Jonsson Performance Hall.

Admission Requirements
The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

Each application is considered on its individual merits. Normally students applying for admission to the Graduate Program in Arts and Technology should have a previous academic degree (BA or BS, MA or MFA) in an appropriate field (i.e., Art, Computer Science), a grade point average of 3.3 (especially in upper-division undergraduate and graduate work), and evidence of previous coursework and/or expertise in the creative arts and digital technology.

**Applicants must submit three letters of recommendation from individuals who can judge the candidate’s probability of success in graduate school.**

Students applying to the doctoral program in Arts and Technology should also submit an essay presenting a research project supported by evidence of previous expertise and practice in the field of art digital technologies and emerging communications. This project should fall in the fields of expertise of the school of Arts, Technology and Emerging Communication. Applicants are encouraged to verify the relevance of their projects with the ATEC faculty members.

**Applicants to the PhD program in Arts and Technology must also present a portfolio including any publications or other evidence of scholarly or creative endeavor achieved by the applicant and should list academic and professional organizations in which the applicant is active and any fellowships, scholarships, or other honors received.**

- Normally students applying for admission to the Graduate Program in Humanities should have previous academic degrees (A or MA) in arts and humanities fields and a grade point average of 3.3 (especially in upper-division undergraduate or graduate work).

- Normally students applying for admission to the Graduate Program in History should have a previous degree (A or S) in history or related disciplines and a grade point average of 3.3 (especially in upper-division undergraduate work).

- Normally students applying for admission to the Graduate Program in Latin American Studies should have a previous degree (A or S) in arts and humanities fields, demonstrated interest and experience in Latin American studies, and a grade point average of 3.3 (especially in upper-division undergraduate work).

The School of Arts, Technology, and Emerging Communication does not require the Graduate Record Examination for admission to graduate programs.

### Full-time and Part-time Students

Students can pursue the graduate degrees on a full- or part-time basis. Full-time students normally register for nine or more semester credit hours per term. The school takes care to accommodate part-time study by scheduling both day and night classes, thus allowing students flexibility in organizing individual schedules.

### Degree Requirements
The university’s general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

The approach to graduate education in the School of Arts, Technology, and Emerging Communication is flexible. Within the specific degree requirements listed in the graduate catalog, each student plans a program of studies in consultation with an assigned advisor.

Courses meeting degree requirements are normally chosen from the core courses and the areas of concentration within the School of Arts, Technology, and Emerging Communication. To have courses taken outside the school applied to one of its degrees, students must seek prior approval from the school’s Associate Dean for Graduate Studies. They may also petition to have appropriate transfer courses applied to reduce the required number of semester credit hours for a degree at UT Dallas. The school’s Associate Dean for Graduate Studies may require students with background deficiencies to take additional courses at the undergraduate or graduate level to remedy those deficiencies.

Active involvement in the process of artistic creation and performance is basic to the design of the Aesthetic Studies area of concentration. Therefore, students working in the Graduate Program in the Humanities at the MA level with an emphasis on Aesthetic Studies are required to take at least one ensemble/workshop, and those working toward a PhD with an emphasis on this area are required to take at least one additional ensemble/workshop. Students undertaking creative projects for master’s portfolios or doctoral dissertations must demonstrate their competency as artists by including in their degree plans a minimum number of studios, ensembles, or workshops related to a proposed medium: two for the MA and four for the PhD.

Research

The research interests of the faculty reflect the interdisciplinary mission of the School. In addition to the research activities of individual faculty,
School of Arts, Technology, Emerging Communications

Graduate Programs in Arts and Technology

The program leading to the MA in Arts and Technology is designed both for individuals engaged in professional practice wishing to enhance their knowledge and skills and for students intending to pursue a doctorate in a related field. It offers advanced studies in interactive media and computer-based arts that emphasize the fusion of creative with critical thinking and theory with practice. Students must complete thirty-six semester credit hours of coursework and an advanced project.

Master of Arts in Arts and Technology

36 semester credit hours minimum

Major Core Courses: 9 semester credit hours

- ATEC 6300 Interdisciplinary Approaches to Arts and Technology
- ATEC 6331 Aesthetics of Interactive Arts
- ATEC 6391 Computer Processing for Arts and Technology

Students are expected to complete these courses as early as possible in their degree plan.

Prescribed Electives: 24 semester credit hours

Twenty-four semester credit hours chosen from the following courses:

- ATEC 6332 Design Principles
- ATEC 6335 Research in Sound Design
- ATEC 6341 Game Design
- ATEC 6344 History and Culture of Interactive Media
- ATEC 6346 Game Production Lab

Comment [MJ1]: New school approved by Board of Regents, 2-12-15.
ATEC 6346 Game Pipeline Methodologies
ATEC 6347 Serious Games
ATEC 6348 Educational Games
ATEC 6351 Digital Arts
ATEC 6352 Motion Capture
ATEC 6353 Visualization Research
ATEC 6354 Virtual Environments
ATEC 6355 Animation Production Lab
ATEC 6356 Interactive Narrative
ATEC 6357 Animation Studio
ATEC 6358 Concept Development
ATEC 6359 Digital Cinematography
ATEC 6361 Creating Interactive Media
ATEC 6362 Modeling and Simulation
ATEC 6363 Creative Automata
ATEC 6375 Topics in Emerging and Cognitive Design
ATEC 6380 Studies in Art, Science, and Humanities
ATEC 6384 Special Topics in Game Studies
ATEC 6385 Special Topics in Animation
ATEC 6389 Topics in Arts and Technology
EMAC 6372 Approaches to Emerging Media and Communication
EMAC 6373 Emerging Media Studio I
EMAC 6374 Digital Textuality
HUAS 6310 Introduction to Film Studies
HUAS 6312 Art and Society
HUAS 6313 The Business of the Arts
HUAS 6330 Studies in the Visual Arts
HUAS 6339 Painting/Digital Imaging/Video
HUAS 6354 Creating Short Fictions
HUAS 6375 Imagery and Iconography
HUAS 6381 Creating Fiction: Intermediate
HUAS 6391 Creativity: Visual Arts Workshop
HUAS 6392 Creativity: Image/Text Workshop
HUAS 6393 Creativity: Time-Based Arts Workshop
Final Project: 3 semester credit hours

ATEC 6V95 Advanced Project Workshop

Having completed at least 30 semester credit hours of coursework, students will complete and present an advanced project in digital arts for evaluation by a master's committee.

Master of Fine Arts in Arts and Technology

54 semester credit hours minimum

The program leading to the MFA in Arts and Technology is designed both for students wishing to teach arts-and-technology-related courses in colleges and universities and for those intending to engage in professional studio or design practice. While maintaining a commitment to interdisciplinary education fusing critical with creative thinking, this program places greater emphasis on the creation and application of computer-based arts and narrative. Students must complete fifty-four semester credit hours of coursework and a substantial advanced project.

Major Core Courses: 6 semester credit hours

ATEC 6300 Interdisciplinary Approaches to Arts and Technology
ATEC 6331 Aesthetics of Interactive Arts

Students are expected to complete these courses as early as possible in their degree plan.

Prescribed Electives: 24 semester credit hours

Twenty-four semester credit hours chosen from the following courses:

ATEC 6332 Design Principles
ATEC 6335 Research in Sound Design
ATEC 6341 Game Design
ATEC 6344 History and Culture of Interactive Media
ATEC 6345 Game Production Lab
ATEC 6346 Game Pipeline Methodologies
ATEC 6347 Serious Games
ATEC 6348 Educational Games
ATEC 6351 Digital Arts
ATEC 6352 Motion Capture
ATEC 6353 Visualization Research
ATEC 6354 Virtual Environments
ATEC 6355 Animation Production Lab
ATEC 6356 Interactive Narrative
ATEC 6357 Animation Studio
ATEC 6358 Concept Development
ATEC 6359 Digital Cinematography
ATEC 6361 Creating Interactive Media
ATEC 6362 Modeling and Simulation
ATEC 6363 Creative Automata
ATEC 6370 Topics in Emerging and Cognitive Design
ATEC 6380 Studies in Art, Science, and Humanities
ATEC 6385 Special Topics in Animation
ATEC 6389 Topics in Arts and Technology
EMAC 6372 Approaches to Emerging Media and Communication
EMAC 6373 Emerging Media Studio I
EMAC 6374 Digital Textuality
EMAC 6375 Research Methodologies in Emerging Media and Communication
HUAS 6310 Introduction to Film Studies
HUAS 6312 Art and Society
HUAS 6313 The Business of the Arts
HUAS 6317 Art and Authorship
HUAS 6330 Studies in the Visual Arts
HUAS 6339 Painting/Digital Imaging/Video
HUAS 6352 Creating Television and Movie Scripts
HUAS 6354 Creating Short Fictions
HUAS 6373 Studies in Film, Television, and Digital Media
HUAS 6375 Imagery and Iconography
HUAS 6381 Creating Fiction: Intermediate
HUAS 6391 Creativity: Visual Arts Workshop
HUAS 6392 Creativity: Image/Text Workshop
HUAS 6393 Creativity: Time-based Arts Workshop
HUAS 6370 Studies in Literature and Ideas

Free Electives: 9 semester credit hours
Independent Study: 9 semester credit hours

Final Project: 6 semester credit hours

ATEC 6V95 Advanced Project Workshop

Having completed at least 45 semester credit hours of coursework, students complete and present a substantial advanced project in digital arts for evaluation by a master's committee.

Doctor of Philosophy in Arts and Technology

60 semester credit hours minimum beyond the master's degree

The program leading to the PhD in Arts and Technology is designed both for students wishing to teach arts-and-technology-related courses in colleges and universities and those who wish to develop new artistic, cultural or commercial applications of digital technology/emerging media. This program emphasizes the fusion of creative with critical thinking and theory with practice. Students seeking a PhD in Arts and Technology will normally complete a minimum of 60 semester credit hours (42 semester credit hours in coursework and 18 semester credit hours in dissertation) beyond a master's degree or its equivalent, pass doctoral field examinations, and complete and defend a dissertation.

Students who have not previously completed six semester credit hours of undergraduate coursework in computer programming are required to complete ATEC 6391.

Within the first 18 semester credit hours of coursework applicable to the degree plan, students must successfully complete ATEC 6300, ATEC 6331, and ATEC 7331. During the semester within which students complete 18 semester credit hours of coursework applicable to the degree plan, students must successfully pass a qualifying examination in order to proceed in the program.

Major Core Courses: 9 semester credit hours

ATEC 6300 Interdisciplinary Approaches to Arts and Technology
ATEC 6331 Aesthetics of Interactive Arts
ATEC 7331 Research Methodology in Arts and Technology

Recommended Electives: 18 semester credit hours

Eighteen semester credit hours chosen from the suggested courses below:

ATEC 6341 Game Design
ATEC 6351 Digital Arts
ATEC 6353 Visualization Research
ATEC 6361 Creating Interactive Media
ATEC 6389 Special Topics in Arts and Technology
Free Electives: 15 semester credit hours

Twelve semester credit hours of electives in any organized graduate-level courses offered by the School of Arts and Humanities, Erik Jonsson School of Engineering and Computer Science, School of Behavioral and Brain Sciences, Naveen Jindal School of Management, School of Economic, Political and Policy Sciences, School of Natural Sciences and Mathematics, or School of Interdisciplinary Studies. All free electives are subject to approval by the Graduate Advisor.

Doctoral Field Examinations

After completing 36 semester credit hours of coursework applicable to the degree plan, students may proceed to the doctoral field examinations, a sequence consisting of three written sections and one oral section. The examining committee, composed of three regular members of the faculty, oversees definition and preparation of the three examination fields within guidelines established by the program. At least three business days before the exams themselves, the faculty members submit examination questions to the Arts and Humanities office, which schedules and administers the examination. The maximum time allowed for a student's completion of the examination sequence is 20 business days.

Dissertation (18 semester credit hours minimum)

Students are formally advanced to PhD candidacy when they have successfully completed the doctoral field examinations and received final approval for dissertation from the four-person supervising committee, formed, normally from the examining committee plus another regular faculty member proposed by the student, to oversee dissertation work.

Each candidate then writes a doctoral dissertation, which is supervised and defended according to general
university regulations. Every student must register for a minimum of nine dissertation semester credit hours in two successive semesters and must maintain continuous enrollment thereafter for at least three semester credit hours during consecutive long semesters until the degree is completed. Any exception to this requirement is granted only by petition to the school's Associate Dean for Graduate Studies.
Graduate Program in Emerging Media and Communication

The program leading to the MA in Emerging Media and Communication focuses on ways in which network technologies are transforming the creation and dissemination of information and content. Providing an interdisciplinary education that connects theory with practice, the program combines the creation of digital content for multiple communication platforms with examination of cultural issues created by emerging technology. The program is intended for (a) professionals in fields such as journalism, design, public relations, and advertising that are powerfully affected by emerging communicative technologies, (b) graduates with degrees in computer science or related fields who wish to expand their occupational potential by gaining expertise in communication, (c) graduates of programs in the humanities, communication, and journalism who wish to expand their occupational potential by gaining expertise in emerging media, and (d) teachers in the humanities and other fields that will be profoundly affected by new modes of communication and information transfer. Students must complete 30 semester credit hours of coursework and a Capstone Project (EMAC 6V91) of at least 3 semester credit hours.

Master of Arts in Emerging Media and Communication

33 semester credit hours minimum

Major Core Course: 3 semester credit hours

- **EMAC 6300** Interdisciplinary Studies in Emerging Media and Communication

Required Courses: 15 semester credit hours

- **EMAC 6342** Digital Culture
- **EMAC 6373** Emerging Media Studio I
- **EMAC 6374** Digital Textuality
EMAC 6375 Research Methodologies in Emerging Media and Communication  
HUHI 6323 Space, Time, and Culture  
or HUHI 6351 History and Philosophy of Science and Technology  
or HUAS 6310 Introduction to Film Studies

Prescribed Electives: 9 semester credit hours

Nine semester credit hours chosen from the following courses:

ATEC 6331 Aesthetics of Interactive Arts  
ATEC 6332 Design Principles  
ATEC 6356 Interactive Narrative  
ATEC 6361 Creating Interactive Media  
EMAC 6365 Journalism and the Digital Network  
EMAC 6372 Approaches to Emerging Media and Communication  
EMAC 6383 Emerging Media Studio II  
EMAC 6381 Special Topics in Emergent Communication  
HUAS 6312 Art and Society  
HUAS 6330 Studies in the Visual Arts  
HUAS 6339 Painting/Digital Imaging/Video  
HUAS 6354 Creating Short Fictions  
HUAS 6355 Creating Nonfictions  
HUAS 6373 Studies in Film, Television, and Digital Media  
HUAS 6391 Creativity: Visual Arts Workshop  
HUHI 6323 Space, Time, and Culture  
HUHI 6327 Artist and Writer in Society  
HUAS 6355 Literature, Science, and Culture

Free Elective: 3 semester credit hours

Capstone Project: 3 semester credit hours

EMAC 6V91 [Capstone] Advanced Project Workshop

In their final semester, students must elect at least 3 semester credit hours to complete and present a Capstone Project.
School of Behavioral and Brain Sciences (BBSC)
2015-16 Graduate Catalog

Degree Programs
School of Behavioral and Brain Sciences

The School of Behavioral and Brain Sciences offers graduate preparation at the master's and doctoral levels designed to meet the needs of students with both research and professional objectives. With instruction and mentoring from internationally recognized faculty, the school's programs emphasize multidisciplinary training coupled with opportunities for intensive research and clinical experiences. The school's degree programs draw upon three clusters of expertise: Communication Sciences and Disorders, Cognition and Neuroscience, and Psychological Sciences. The Callier Center for Communication Disorders-Dallas, Callier-Richardson, the Center for BrainHealth, the Center for Vital Longevity, and the Center for Children and Families, all large comprehensive clinical, research, and community service facilities, further enrich the training of graduate students.

Degrees Offered

- **Master of Science in Applied Cognition and Neuroscience** (36 semester credit hours minimum)
- **Master of Science in Communication Disorders** (48 semester credit hours minimum)
- **Master of Science in Human Development and Early Childhood Disorders** (45 semester credit hours minimum)
- **Master of Science in Psychological Sciences** (36 semester credit hours minimum)
- **Doctor of Audiology** (100 semester credit hours)
- **Doctor of Philosophy in Cognition and Neuroscience** (75 semester credit hours minimum beyond the baccalaureate degree)
- **Doctor of Philosophy in Communication Sciences and Disorders** (75 semester credit hours minimum beyond the baccalaureate degree)
- **Doctor of Philosophy in Psychological Sciences** (75 semester credit hours minimum beyond the baccalaureate degree)
School of Behavioral and Brain Sciences
Program

Master of Science Program in Applied Cognition and Neuroscience

Faculty


Professor Emeritus: Susan W. Jerger

Associate Professors: Gregory Dussor, Francesca Filbey, Daniel Krawczyk, Mandy J. Maguire, Christa K. McIntyre, Theodore Price, Bart Rypma, Lucien (Tres) Thompson

Assistant Professors: Chandramallika Basak, Cindy M. De Frias, Kristen Kennedy, Sven Kröner, Jonathan E. Ploski, Karen Rodrigue, Noah J. Sasson, Gagan Wig

Distinguished Scholar in Residence Emeritus: James F. Jerger

Objectives

The Master of Science in Applied Cognition and Neuroscience (ACN) program is an applied multidisciplinary program that incorporates and integrates methodologies from such diverse fields as psychology, neuroscience, computer science, and philosophy. The Neuroscience specialization area enables students to focus on the brain from a variety of perspectives including systems, cellular, and molecular-level approaches with the objective of understanding the interactions of these systems and how they underlie the emergence and diversity of behavior. The Cognition specialization area provides students with training in the area of experimental cognitive psychology, which exploits experimental psychology methods to develop and test information processing theories of human behavior, including perception, learning, memory, thinking, and language. The Cognition and Neuroscience specialization area provides a flexible multidisciplinary curriculum for studying the mind and brain that strategically incorporates features of both the Cognition specialization area and the Neuroscience specialization area. Students enrolling in the Cognition and Neuroscience specialization area learn to use behavioral research methods in conjunction with neuroscience research methods to investigate the neural foundations of cognitive processes. The Computational Modeling/Intelligent Systems specialization area provides advanced training applicable to mathematical and computer simulation models of the brain and behavior as well as the design, development, and evaluation of artificially intelligent systems. The Human-Computer Interaction specialization area provides preparation for work in areas involving human-computer interactions. These areas include usability engineering and user-experience design issues associated with the design, development, and evaluation of user-friendly human-computer interfaces. The Neurological Diagnosis and...
Monitoring specialization area provides advanced training for using functional brain imaging methodologies such as: EEG, SPECT, PET, and fMRI for both clinical and experimental investigations. It also provides training for career paths in the field of Intraoperative Neurophysiological Monitoring. Furthermore, all six specialization areas provide excellent preparation for doctoral work in the Cognition and Neuroscience area as well as medical school.

Career Opportunities

The Masters of Science in Applied Cognition and Neuroscience (ACN) provides advanced training opportunities in the areas of Neuroscience, Experimental Psychology, Artificial Intelligence, and Human-Computer Interactions. In addition, the ACN program is a multidisciplinary program that should be of interest to business professionals working full-time in a professional-level job who are interested in either a career change or continuing education. Many courses in the ACN program are offered periodically as evening courses that meet either once or twice a week. A few representative career opportunities in the Applied Cognition and Neuroscience Area are listed as follows.

• Software development and engineering professionals interested in pursuing careers in the areas of usability engineering and user-experience (UX) design and development will greatly benefit from the Human-Computer Interactions specialization area. Usability engineering and user-experience design involve the evaluation and design of human-computer interfaces such as: website and software graphical user interfaces (GUIs), smartphone interfaces, and voice-user interfaces (VUs).

• Psychological counselors and education professionals (e.g., high school science teachers, adult literacy educators) will greatly benefit from the basic neuroscience and psychological science courses offered in the Cognition and Neuroscience specialization area.

• Medical health professionals (e.g., Electroneurodiagnostic Technologists, MRI Technicians, Radiologists) who are working in the area of brain imaging technology will find the Neurological Diagnosis and Monitoring specialization area relevant for improving their knowledge and understanding of functional brain imaging technologies such as: EEG, SPECT, PET, and fMRI.

• Software development and engineering professionals interested in artificially intelligent systems should consider the Intelligent Systems specialization area. Mathematical algorithms are now widely embedded in a variety of systems for the purposes of providing "intelligent assistance" to the end-user. Examples of such systems include: web search engines, speech recognition systems, robotics, computer-vision systems, computer games, natural language understanding systems, bionic and prosthetic technology, data mining systems, and machine learning systems.

Facilities

In addition to numerous individual faculty research labs, the Applied Cognition and Neuroscience Program utilizes several facilities which are shared among faculty and graduate students in the School of Behavioral and Brain Sciences. The Computational Systems Laboratory consists of a network of workstations which are used for computationally intensive models of perceptual, cognitive, and neural processes as well as high-volume data analyses. The Computational Systems Laboratory can be accessed remotely by graduate students and faculty members. The Neuroscience Laboratory facilities are located in Green Hall and the
Administration Building at the Richardson campus as well. The Callier Center for Communication Disorders, located adjacent to The University of Texas Southwestern Medical Center, provides access to brain imaging laboratories and speech, hearing, and language laboratories.

**Admission Requirements**

The university's general admission requirements are discussed on the [Graduate Admission page](catalog.utdallas.edu/2015/graduate/admission). Admission to the Applied Cognition and Neuroscience Program is based on a review of the applicant's GPA (grade point average), letters of recommendation, and narrative description of interests and career goals. Both GRE math and verbal scores are required to be considered for admission.

Students with strong academic records, who are in the process of completing their undergraduate degree at UT Dallas, may be admitted as Fast-track students. Fast-track students may accelerate completion of the degree requirements of the Master of Science Program in Applied Cognition and Neuroscience at UT Dallas by completing up to 15 semester credit hours of specified fast-track graduate coursework at UT Dallas as an undergraduate. Fast-track semester credit hours may be used to fulfill requirements for the student's undergraduate UT Dallas degree as well as satisfy course requirements for the master's degree in Applied Cognition and Neuroscience. Applications to the Graduate Program in Applied Cognition and Neuroscience can be submitted as soon as the student is an undergraduate at UT Dallas with no more than 45 semester credit hours remaining.

**Degree Requirements**

The university's general degree requirements are discussed on the [Graduate Policies and Procedures page](catalog.utdallas.edu/2015/graduate/policies/policy). All students in the program are required to regularly review their degree plans with their program advisor. In all areas of specialization, students complete 6 semester credit hours of approved core courses, 6 semester credit hours of approved methods courses, 6 semester credit hours of approved advanced elective courses, 12 semester credit hours of coursework in an approved specialization area, and 6 semester credit hours of internship courses. A grade of "B" is the required passing grade for coursework used to fulfill the core course and methods course requirements of the degree. Internship coursework must be taken pass/fail.

**Master of Science in Applied Cognition and Neuroscience**

36 semester credit hours minimum

**Required Major Core Courses: 6 semester credit hours**

Select two of the following core courses based upon choice of specialization area:
ACN 6330 Cognitive Science
ACN 6338 Functional Neuroanatomy
ACN 6340 Cellular Neuroscience
ACN 6346 Systems Neuroscience
ACN 6348 Neural Net Mathematics
ACN 6395 Cognitive Psychology

Required Methods Courses: 6 semester credit hours

Select two methods courses based upon choice of specialization area:

ACN 5314 Computational Modeling Methods in Behavioral and Brain Sciences
ACN 6312 Research Methods in Behavioral and Brain Sciences - Part I
ACN 6313 Research Methods in Behavioral and Brain Sciences - Part II
ACN 6316 Research Methods in Behavioral and Brain Sciences - Part III
ACN 6322 Computational Modeling Methods for Language Understanding
ACN 6347 Intelligent Systems Analysis
ACN 6349 Intelligent Systems Design
ACN 6373 Intraoperative Neurophysiological Monitoring I
ACN 6374 Intraoperative Neurophysiological Monitoring II
ACN 6388 MATLAB for Brain Sciences
ACN 6341 Human-Computer Interactions I
ACN 6342 Human-Computer Interactions II

Area of Specialization (18 semester credit hours)

The following six specialization areas have been approved for the Applied Cognition and Neuroscience program. Alternative curriculum proposals may be submitted for consideration to the Applied Cognition and Neuroscience program head.

Neuroscience Specialization Area

All students selecting this specialization area should take at least two of the following three courses: ACN 6346 Systems Neuroscience, ACN 6338 Functional Neuroanatomy, and ACN 6340 Cellular Neuroscience in order to fulfill their core course requirements. Students interested in pursuing work in the area of Cognitive-Neuroscience should, in addition, take either: ACN 6330 Cognitive Science or ACN 6395 Cognitive Psychology.

Students selecting this specialization area are approved to select any four courses from the ACN program (i.e., courses with the prefix ACN) or the Cognition and Neuroscience Area of the Doctoral Programs in Psychological Sciences (i.e., courses with the prefix HCS). Additional approval from the program head may be required to register for some courses with the prefix HCS, ACN 6330.
Cognition Specialization Area

The core course requirement for this specialization area is satisfied by choosing: ACN 6330 Cognitive Science and ACN 6395 Cognitive Psychology. Research Methods I (ACN 6312) and Research Methods II (ACN 6313) are strongly recommended for this specialization area. It is also strongly recommended that students take at least one of the following two courses: ACN 6346 Systems Neuroscience and ACN 6338 Functional Neuroanatomy.

Students selecting this specialization area are approved to select any four courses from the ACN program (i.e., courses with the prefix ACN) or the Cognition and Neuroscience Area of the Doctoral Programs in Psychological Sciences (i.e., courses with the prefix HCS). Additional approval from the program head may be required to register for some courses with the prefix HCS.

Cognition and Neuroscience Specialization Area

All students selecting this specialization area should take either: ACN 6346 Systems Neuroscience or ACN 6338 Functional Neuroanatomy in order to fulfill one of their core course requirements. The remaining core course requirement will be satisfied by choosing either: ACN 6330 Cognitive Science or ACN 6395 Cognitive Psychology. Research Methods I (ACN 6312) and Research Methods II (ACN 6313) are strongly recommended for this specialization area.

Students selecting this specialization area are approved to select any four courses from the ACN program (i.e., courses with the prefix ACN) or the Cognition and Neuroscience Area of the Doctoral Programs in Psychological Sciences (i.e., courses with the prefix HCS). Additional approval from the program head may be required to register for some courses with the prefix HCS.

Human-Computer Interactions Specialization Area

Both ACN 6330 Cognitive Science and ACN 6395 Cognitive Psychology may be used to satisfy the core course requirement for this specialization area. All students selecting this specialization area should take at least one of the following two courses: ACN 6341 Human Computer Interactions I and ACN 6342 Human Computer Interactions II.

The course sequence Research Methods I (ACN 6312) and Research Methods II (ACN 6313) is highly recommended for satisfying the methods requirement for this specialization area.

Students pursuing the usability-engineering track within the HCI specialization area should take at least one additional course in the area of cognition. In particular, the courses ACN 6332 Perception, ACN 6333 Memory, ACN 6334 Attention, ACN 6363 Text Comprehension Seminar, and ACN 6367 Speech Perception are highly recommended to satisfy this requirement.

Students pursuing the user experience design track within the HCI specialization area should take the coursework in the usability engineering track as well as: CS 5343 Algorithm Analysis and Data Structures and CS 5354 Software Engineering. Note that the prerequisites for CS 5343 are: CS 5303 Computer Science I (or equivalent) and CS 5333 Discrete Structures (or equivalent).

The following highly relevant Arts and Technology courses are pre-approved electives for all students specializing in the Human-Computer Interactions area who have the appropriate prerequisite background in Arts and Technology: ATEC 6332 Design Principles, ATEC 6333 Computational Design, ATEC 6375 Topics in Emerging and Cognitive Design, ATEC 6391 Computer Processing for Arts and Technology, and ATEC 7330 Advanced Topics in Complex Digital Interactive Systems.
Computational Modeling/Intelligent Systems Specialization Area

Students pursuing the computer simulation modeling track should take four courses from the Cognition and Neuroscience specialization area which include at least one of the following courses: ACN 6388 MATLAB for Brain Sciences, ACN 6322 Computational Modeling Methods for Language Understanding, and ACN 5314 Computational Modeling Methods in Behavioral and Brain Sciences.

Students pursuing the mathematical modeling track will satisfy the advanced elective requirement in this specialization area by taking the sequence: ACN 6348 Neural Net Mathematics, ACN 6347 Intelligent Systems Analysis, and ACN 6349 Intelligent Systems Design and one additional course from the Cognition and Neuroscience specialization area course selection. Note that STAT 5351 Probability and Statistics I, linear algebra, multivariable calculus, and ACN 5314 Computational Modeling Methods in Behavioral and Brain Sciences are recommended prerequisites for ACN 6347, ACN 6348, and ACN 6349.

The following Computer Science and Electrical Engineering courses are pre-approved electives for students specializing in the Intelligent Systems area who have the appropriate prerequisite background in computer science and/or electrical engineering: CS 6320 Natural Language Processing, CS 6321 Discourse Processing, CS 6364 Artificial Intelligence, CS 6373 Intelligent Systems, CS 6375 Machine Learning, CS 6384 Computer Vision, EESC 6362 Introduction to Speech Processing, EESC 6363 Digital Image Processing, EESC 6364 Pattern Recognition, and EESC 6365 Adaptive Signal Processing.

Neurological Diagnosis and Monitoring Specialization Area

Students should choose ACN 6338 Functional Neuroanatomy and ACN 6346 Systems Neuroscience to fulfill the core course requirements. ACN 6373 Intraoperative Neurophysiological Monitoring I and ACN 6374 Intraoperative Neurophysiological Monitoring II should be taken to fulfill the methods requirement.

Students should also choose at least 2 of the following courses as specialization area electives: ACN 6310 Fundamentals of Functional Brain Imaging, HCS 7316 Statistical Analysis of Brain Imaging Data, HCS 7329 Functional Brain Imaging Practica, ACN 6372 The Neuroscience of Pain, and ACN 7330 Advanced Functional Brain Imaging.

Internships (6 semester credit hours)

The internship requirement is satisfied by enrolling in 6 semester credit hours of ACN 6V71 Industry Internship, ACN 6V72 Research Internship, and/or HCS 8V80 Research in Behavioral and Brain Sciences.

Students whose immediate post-graduate goals are graduate school and medical school should fulfill the Internship Requirement by taking six semester credit hours of HCS 8V80 in order to obtain research experience.

Students not intending to pursue graduate or medical school training immediately after receiving their ACN master's degree should discuss internship opportunities with the Program Head during their second semester of enrollment in the ACN program.
School of Behavioral and Brain Sciences

Master of Science Program in Communication Disorders Program

Faculty
Professors: Thomas Campbell, Sandra B. Chapman, Christine Dollaghan, Julia Evans, William F. Katz, Robert D. Stillman, Linda M. Thibodeau, Emily A. Tobey, Hanna K. Ulatowska, Anne van Kleek
Associate Professors: Mandy J. Maguire, Pamela R. Rollins
Assistant Professors: Raúl Rojas, Jun Wang
Clinical Faculty: Michelle Aldridge, Lucinda Dean, Diane Garst, Karen Kaplan, Helen Kenedi, Janice Lougeay, Felicity Sale

Objectives
The Master of Science program in Communication Disorders offers broad-based professional preparation in speech-language pathology within an environment which supports an active program of clinical services and research. Students are provided comprehensive exposure to clinical approaches in communication disorders and to the scientific foundations from which clinical approaches are derived. Practical experience is available in a variety of on- and off-campus clinical, educational, and medical settings.

The graduate program in Communication Disorders is accredited in speech-language pathology by the Council on Academic Accreditation of the American Speech-Language-Hearing Association.

Facilities
The principal sites for the academic, clinical, and research activities of the Communication Disorders program are the UT Dallas Callier Center for Communication Disorders, adjacent to The University of Texas Southwestern Medical Center, and Callier-Richardson on the UT Dallas main campus. These facilities, and others throughout the Dallas-Fort Worth Metroplex, provide the educational, clinical, research, and medical environments essential for an interdisciplinary program in Communication Disorders.

Admission Requirements
The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

Admission to the Communication Disorders Program is based on a review of the applicant's transcripts, GRE scores, letters of recommendation, and statement of purpose.
Degree Requirements

The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

The Master of Science program requires a minimum of 48 semester credit hours. Students completing the master's degree meet the academic and clinical practicum requirements for the Certificate of Clinical Competence offered by the American Speech-Language-Hearing Association.

Master of Science in Communication Disorders

48 semester credit hours minimum

Required Courses

Students entering the master's program with a bachelor's degree in speech-language pathology are required to take the following courses:

- COMD 6221 Voice Disorders
- COMD 6222 Stuttering
- COMD 6320 Motor Speech Disorders
- COMD 6377 Neurogenic Communication Disorders
- COMD 7303 Dysphagia
- COMD 7378 Assessment and Intervention of Language Impairments in Preschool and School-Age Children

Elective Courses

Students must also complete approved elective courses and practicum/internship totaling 48 semester credit hours. In addition to the required courses listed above, students must complete a minimum of three additional courses in the areas of language disorders in children and language disorders in adults. Two courses must be completed in one area and one course in the other. Students enroll in Practicum (HCS 7380) or Internship (COMD 6630) each semester in order to earn the necessary clock hours for certification and licensure. In general, a maximum of 9 semester credit hours of Practicum/Internship may be counted toward the minimum 48 semester credit hours required for the degree. Exceptions to the above requirements must be approved by the program head.
Combined Master/Doctoral Study

Students who wish to earn a clinical master's degree while pursuing doctoral study may apply for combined master's/doctoral study. Students approved to enroll in both master's and doctoral courses pursue an individualized plan of study leading to both degrees. A minimum of 39 semester credit hours in the chosen PhD program must be taken in addition to the minimum credit hour requirements for the MS degree.

Comprehensive Examination

All students seeking the master's degree in Communication Disorders must pass a written comprehensive examination. A thesis is optional.

Out-Of-Field Students

Students entering the program who lack undergraduate preparation in speech-language pathology or audiology are required to take preparatory courses as part of their graduate degree plan. Students must be admitted to the graduate program before they are eligible to enroll in preparatory courses. UT Dallas does not offer a non-degree or "leveling" program in Communication Disorders.
School of Behavioral and Brain Sciences

Master of Science Program in Human Development and Early Childhood Disorders Program

Faculty

Professors: Bert S. Moore, Margaret Tresch Owen, John W. Santrock, Melanie J. Spence, Robert D. Stillman, Marion K. Underwood

Associate Professors: Shayla C. Holub, Mandy J. Maguire, Candice M. Mills, Amy Pinkham, Pamela R. Rollins

Assistant Professors: Heidi S. Kane, Jackie Nelson, Noah J. Sasson

Clinical Faculty: Cherryl L. Bryant, Ana-Maria Mata-Otero

Senior Lecturer: Jacoba (Toosje) VanBeveren

Objectives

The Master of Science program in Human Development and Early Childhood Disorders is designed for students with professional interests in early child development and disorders. The curriculum offers a strong foundation in the normative path of physical, cognitive, and social development with specialized training in assessment, diagnostic and intervention skills needed to work with developmental disorders of early childhood. The program is designed for students interested in a career in the delivery of services to young children who show developmental delays and disorders, the prevention of delays, and the promotion of optimal development. It teaches students to work as part of a multi- or transdisciplinary team. It provides training to work with infants and young children and their families in early childhood intervention programs, child life programs in hospitals, preschools, and medical/therapy clinics. Classroom training is combined with practical experience in a variety of clinical and educational settings, both on campus and in the community. Students graduating from the program qualify to work as Early Intervention Specialists and Developmental Specialists. Coursework also satisfies most of the competencies toward Child Life certification. Graduates with one additional year of work experience typically qualify for Level 2 Infant Mental Health Endorsement by the Texas Association for Infant Mental Health.

Facilities

The principal sites for the academic activities of the Human Development and Early Childhood Disorders program are located at UT Dallas and the Callier Center for Communication Disorders on the main campus in Richardson and on the campus of the UT Southwestern Medical Center in Dallas. Facilities include research and observational laboratories, including settings dedicated to infant and child assessment. The Callier Center on both the main campus in Richardson and the medical center campus offer a number of
educational and clinical programs serving young children, including the Preschool Language Development Program held at Callier-Richardson. Various community programs and settings throughout the Dallas-Fort Worth Metroplex provide essential educational and clinical environments for training in Human Development and Early Childhood Disorders. Practicum and Internship placements both on campus and in the community provide supervised on-site and community based fieldwork experiences with young children with special needs and their families.

Admission Requirements

The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

The Human Development and Early Childhood Disorders program is designed for students with backgrounds in psychology, special education, early childhood education, social work, and communication disorders. Students from other disciplines are also encouraged to apply. Those from other fields are generally not required to take leveling courses.

Admission to the Human Development and Early Childhood Disorders program is based on a review of the applicant's GPA (grade point average), GRE scores, letters of recommendation, and narrative description of interests, relevant experiences, and career goals.

Degree Requirements

The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

The plan of study includes a set of required foundational courses, elective course options, and supervised practical experience in applied settings designed to prepare students to work with children and their families.

Students are advised that participation in off-campus practicum and internship requires a criminal background check. Students excluded from off-campus sites for any reason may be unable to complete all degree requirements.

Master of Science in Human Development and Early Childhood Disorders

45 semester credit hours

The Master of Science program requires a minimum of 45 semester credit hours. Specific degree requirements follow.

Required Major Core Courses: 27 semester credit hours

HDCD 6310 Working with Parents and Caregivers
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>HDCD 6312</td>
<td>Atypical Development</td>
</tr>
<tr>
<td>HDCD 6315</td>
<td>Assessment Theory</td>
</tr>
<tr>
<td>HDCD 6316</td>
<td>Developmental Assessment</td>
</tr>
<tr>
<td>HDCD 6319</td>
<td>The Developing Child: Infants and Toddlers</td>
</tr>
<tr>
<td>HDCD 6320</td>
<td>The Developing Child: Toddler and Preschool Years (Two to Five Years)</td>
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<tr>
<td>HDCD 6335</td>
<td>Intervention Paradigms</td>
</tr>
<tr>
<td>HDCD 6370</td>
<td>Intervention with Young Children</td>
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<tr>
<td>HDCD 6390</td>
<td>Infant Mental Health</td>
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</tbody>
</table>

Practicum: 3 semester credit hours

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<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>HDCD 6V20</td>
<td>Practicum/Internship in Early Childhood Disorders</td>
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</tbody>
</table>

Internship: 6 semester credit hours

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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HDCD 6V20</td>
<td>Practicum/Internship in Early Childhood Disorders</td>
</tr>
</tbody>
</table>

Electives: 9 semester credit hours *(several courses from other programs are also appropriate)*

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>COMD 6307</td>
<td>Language Acquisition</td>
</tr>
<tr>
<td>COMD 7V62</td>
<td>Seminar in Autism</td>
</tr>
<tr>
<td>HCS 7382</td>
<td>Health Psychology</td>
</tr>
<tr>
<td>HDCD 5350</td>
<td>Introduction to Child Life</td>
</tr>
<tr>
<td>HDCD 6330</td>
<td>Families and Culture</td>
</tr>
<tr>
<td>HDCD 6351</td>
<td>Play Matters</td>
</tr>
<tr>
<td>HDCD 6355</td>
<td>Family Outreach and Assessment</td>
</tr>
<tr>
<td>HDCD 6360</td>
<td>Behavior Management</td>
</tr>
<tr>
<td>HDCD 6385</td>
<td>Social Communication in Early Childhood Disorders</td>
</tr>
<tr>
<td>HDCD 6385</td>
<td>Child Psychopathology</td>
</tr>
<tr>
<td>HDCD 6395</td>
<td>Medical and Biobehavioral Factors in Early Childhood Disorders</td>
</tr>
<tr>
<td>HDCD 6V81</td>
<td>Special Topics in Human Development and Early Childhood Disorders</td>
</tr>
<tr>
<td>HDCD 7V80</td>
<td>Independent Research</td>
</tr>
<tr>
<td>HDCD 7V98</td>
<td>Independent Study</td>
</tr>
</tbody>
</table>

Deleted courses:
- HDCD 6325: Service Coordination of Community Resources
- HDCD 6390: Infant Mental Health
No revisions submitted per Sarah Schmitt; will be rolled over to 2015 catalog

The Master of Science (MS) in Psychological Sciences program provides advanced training in psychological sciences. The program is designed for full-time student scholars who wish to expand their knowledge of psychology by engaging in advanced coursework, additional research training, and/or applied experience in psychological sciences. The program also offers students the opportunity to gain additional psychology training in preparation for applying to nationally prominent doctoral programs in Clinical and Experimental Psychology. This research-focused program requires students to work with a research mentor from the beginning and to be actively involved in at least one research laboratory throughout training. The Master of Psychological Sciences degree does not provide clinical training or lead to licensure as a counselor or psychologist.

Facilities

The principal sites for the academic, applied, and research activities of the Master of Science Program in Psychological Sciences include faculty labs located on the Richardson campus and at vibrant centers within the School of Behavioral and Brain Sciences: the Center for Children and Families, the Callier Center for Communication Disorders, the Center for BrainHealth, the joint Center for Brain Imaging with UT Southwestern Medical Center, and the Center for Vital Longevity. These centers provide access to brain imaging laboratories and speech, hearing, and language laboratories.
Admission Requirements

The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

The application deadline is February 15th each year. Applicants are selected once a year to begin the program in the fall semester.

Admission to the Master of Science Program in Psychological Sciences is based on a review of the applicant's GPA (grade point average), three letters of recommendation, and narrative description of interests and career goals. Both GRE math and verbal scores are required to be considered for admission.

Degree Requirements

The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

The MS in Psychological Sciences curriculum is designed to offer opportunities for specialization in a chosen core field, breadth of training, selection of electives that serve students' individual goals, and research experience. Each student will be assigned to a research mentor at the start of the program and will maintain involvement in a research laboratory throughout the two-year program.

All students in the program are required to regularly review their degree plans with their research mentor. The program requires a minimum of 36 semester credit hours distributed as follows. Students are required to complete 6 semester credit hours of major field core courses (two selected from one of the following fields: Developmental, Cognitive, Social and Personality, and Neuroscience), 6 semester credit hours of additional core courses (two courses from a different area than the major core), 6 semester credit hours of Research Methods (a two course sequence in statistics and research methods), 12 semester credit hours of approved advanced elective courses, and 6 semester credit hours of Independent Study/Research.

Master of Science in Psychological Sciences

36 semester credit hours minimum

Major Field Core Courses: 12 semester credit hours minimum

Students will declare a major in one of these areas and take two courses from the major area and two courses from a different area than the major core.

Developmental Psychology

PSYC 6331 Cognitive Development
PSYC 6350 Social Development
PSYC 6368 Language Development
Research Methods: 6 semester credit hours minimum

Students will complete two 3-semester credit hour courses in research methods and design that are approved by the program head and faculty coordinator.

Research Methods I

PSYC 6312 Research Methods in Behavioral and Brain Sciences - Part I

Research Methods II

PSYC 6313 Research Methods in Behavioral and Brain Sciences - Part II

Advanced Electives: 12 semester credit hours minimum

Students will elect 4 courses from masters and doctoral offerings. Any core course (listed above) may count as an advanced elective, though it cannot count both as a core course and as an elective.

As an elective course, interested students may participate in a Teaching Internship. Teaching internships will be arranged by the Program Head in consultation with the teaching faculty. Teaching internships will be for course credit and not for pay.

Independent Study/Research: 6 semester credit hours

Students will complete a Research Project fulfill this requirement. The research requirement will be fulfilled by completion of a focused research project to be submitted and presented in poster format.
No changes per Schmitt for Stillman. Rolled over to 2015 catalog.

http://catalog.utdallas.edu/2015/graduate/programs/bbs/audiology

UT Dallas 2015 Graduate Catalog

School of Behavioral and Brain Sciences

Doctor of Audiology Program

Faculty

Professors: Peter F. Assmann, Michael P. Kilgard, Colleen Le Prell, Aage Møller, Ross Roeser, Robert D. Stillman, Linda M. Thibodeau, Emily A. Tobey

Associate Professor: Edward Lobaranis, Sven Vanneste

Clinical Associate Professors: Jackie Clark, Carol Cokely, Kenneth C. Pugh, Phillip (Lee) Wilson

Assistant Professor: Andrea Warner-Czyz

Distinguished Scholar in Residence Emeritus: James F. Jerger

Faculty Associates: Beth Bernthal, Jenifer Carlock, Lisa Flores, Elizabeth Gill, Shawna Jackson, Shari won, Amanda Labue, Holly Marvin, Lisa Richards, Sarah Tillman

Objectives - AuD Program

Doctor of Audiology (AuD): The AuD degree offers broad-based professional preparation in audiology within an environment supporting an active program of clinical services and research. Students receive comprehensive exposure to clinical methods and procedures across the scope of practice in audiology and to the scientific foundations from which clinical approaches are derived. Clinic rotations are provided at the Callier Center and medical and educational settings throughout the Dallas-Fort Worth Metroplex.

AuD/PhD degree track: Students who are interested in combining clinical and research training may combine the AuD with the PhD in Communication Sciences and Disorders. Students must apply separately to the PhD program to be considered.

Facilities

The principal site for the academic, clinical, and research activities of the Doctor of Audiology program is the UT Dallas Callier Center for Communication Disorders, which is adjacent to The University of Texas Southwestern Medical Center. Courses and practicum are also offered at UT Dallas Callier Richardson on the main campus of The University of Texas at Dallas. The UT Dallas Callier Advanced Hearing Research Center (AHRC) provides specialized clinical and research facilities for the program. The Callier Centers and AHRC have a combined 11 sound suites, equipped with state-of-the-art equipment for clinical-service provision and auditory research. In addition to the Callier outpatient clinics, the Callier Center houses the
Dallas Cochlear Implant Program, the Dallas Regional Day School for the Deaf, Tinnitus and Hyperacusis Clinic, Auditory Processing Clinic, and Assistive Devices Center.

Admission Requirements
The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

Admission to the Doctor of Audiology Program is based on a review of the applicant's GPA (grade point average), GRE scores, letters of recommendation, and narrative description of interest in audiology, research interests, and career goals. The GRE score is included in the evaluation of the applicant's record. There is no minimum cut-off scores for admission.

Degree Requirements
The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

The Doctor of Audiology (AuD) degree requires 100 semester credit hours. Students completing the AuD degree meet the academic and clinical practicum requirements for the Certificate of Clinical Competence offered by the American Speech-Language-Hearing Association and Texas State licensure requirements for audiology. Specific degree requirements follow.

Doctor of Audiology (AuD)
100 semester credit hours

Required Courses (100 semester credit hours)

Foundation: 25 semester credit hours

- AUD 6V20 Laboratory Procedures in Audiology and Hearing Science (taken 4 times)
- AUD 6303 Hearing Science
- AUD 6305 Anatomy and Physiology of Audition
- AUD 6306 Speech Science
- AUD 6310 Advanced Clinical Audiology
- AUD 6311 Diagnostic Audiology
- AUD 6316 Audiologic Rehabilitation for Adults
- AUD 6318 Pediatric Audiology

Doctoral Core: 29 semester credit hours

- AUD 6113 Grand Rounds (taken 4 times)
- AUD 6352 Medical Audiology
AUD 7182 Issues in Mentoring and Counseling
AUD 7321 Theories of Amplification
AUD 7324 Seminar in Cochlear Implants and Technology for Persons with Hearing Impairments
AUD 7326 Aural Habilitation of Children with Hearing Impairments
AUD 7327 Evaluation and Fitting of Amplification Systems
AUD 7338 Research in Audiology
AUD 7339 Evidence-Based Practice in Communication Disorders
AUD 7353 Clinical Electrophysiology

Advanced: 18 semester credit hours

AUD 6314 Instrumentation
AUD 7210 Professional Issues in Audiology
AUD 7228 Hearing Loss Prevention
AUD 7240 Auditory Processing Disorders
AUD 7351 Physiologic Assessment of Vestibular System
Various Doctoral Electives in AuD (taken 2 times: a 3-semester credit hour course)
AUD 7V82 Special Topics in Hearing Science and Audiology (when topic is Auditory Processing Disorders)

Experiential: 28 semester credit hours

AUD 7280 Doctoral Practicum in Audiology (taken 8 times)
AUD 8V80 Individual Research in Audiology
AUD 8V97 Doctoral Internship in Audiology (taken 3 times)

Out-of-Field Students

Students entering the program who lack undergraduate preparation in communication disorders or science are required to take a specified sequence of corequisite courses. Students may take these courses at The University of Texas at Dallas prior to the beginning of the program, or concurrently during AuD courses.

Students are advised that participation in clinical rotations mandates some personal expense. All students must obtain lab coats and professional liability insurance. Off-campus clinical rotations and externship may have additional expenses such as a criminal background check, drug screening, TB screening, chicken pox titer, hepatitis vaccination, CPR certification, and fingerprinting. Students excluded from off-campus sites for any reason may be unable to complete all degree requirements.
School of Behavioral and Brain Sciences

Doctoral Programs in Cognition and Neuroscience, Communication Sciences and Disorders, Psychological Sciences

Faculty


Professor Emeritus: Susan W. Berger, Allen Rupert

Associate Professors: Gregory Dussor, Francesca Filbey, Shayla C. Holub, Daniel Krawczyk, Edward Chobanis, Mandy J. Maguire, Christa McIntyre, Candice M. Mills, Amy Pinkham, Theodore Price, Pamela Collins, Curt Dypma, Lucien (Tres) Thompson, Sven Vanneste

Assistant Professors: Robert Ackerman, Chandramali Kasak, Heidi S. Kane, Kristen Kennedy, Sven Gruber, Junyung Ha, Jackie Nelson, Jonathan E. Ploski, Karen Rodrigue, Xialong Wang, Noah Sasson, Jun Wang, Andrea Warner-Clyde, Gagan Wig

Distinguished Scholar in Residence Emeritus: James F. Preger

Objectives

The School of Behavioral and Brain Sciences offers doctoral programs in Cognition and Neuroscience, Communication Sciences and Disorders, and Psychological Sciences. Each provides preparation in basic and applied aspects of behavioral and brain sciences. The faculty consists of specialists in developmental psychology, social/personality psychology, cognitive science, neuroscience, cognitive neuroscience, and communication sciences and disorders. Students may specialize in these areas or pursue study across areas as in the study of child language, aging, perception, and behavioral and neural plasticity. Core and specialized courses provide the foundation for advanced seminars and a wide spectrum of doctoral research in laboratories, schools, and clinics. Frequent colloquia and informal brown-bag seminars contribute to a stimulating environment for scholarly development.

Cognition and Neuroscience

The flexible, non-traditional doctoral program in Cognition and Neuroscience provides novel opportunities for multidisciplinary and cross-disciplinary studies in the areas of perception, memory, attention and
executive processing, cognitive neuroscience, cellular and systems neuroscience, cortical plasticity, and computational modeling of cognitive and neural processes. Close liaison with the UT Southwestern Medical Center provides access to first-class neuroimaging technologies and research populations. Students pursuing research in this program have the option of developing, in consultation with their doctoral advisor, a unique training program tailored to their specific research interests.

**Communication Sciences and Disorders**

The doctoral program in Communication Sciences and Disorders provides opportunities for graduate study and research in the areas of speech, language, and hearing science, and in the disorders that affect speech, language, and hearing. Students have available a wealth of research opportunities in laboratories, clinics, and schools, both on-campus and in the community. Close liaison with the UT Southwestern Medical Center provides patient access and numerous opportunities for research in medical settings. Coursework and research options within the doctoral programs in Psychological Sciences and Cognition and Neuroscience allow students to pursue interdisciplinary study in areas such as neuroimaging of language processes, child language, autism, neural plasticity and recovery, speech perception, auditory neuroscience, and cognitive aging.

**Psychological Sciences**

The doctoral program in Psychological Sciences provides opportunities for graduate study and research in experimental psychology. The program offers strong interdisciplinary linkages to other areas within the School of Behavioral and Brain Sciences, including cognitive neuroscience, behavioral neuroscience, and communication sciences and disorders. The primary goal of the program is to prepare productive scientists for scholarly work in academic or applied settings. Students work closely with one or more faculty members in a collegial mentoring relationship. Although all students complete a core curriculum comprised of coursework in Developmental, Cognitive, and Social/Personality Psychology, the program allows students to individually tailor their studies in creative ways.

**Facilities**

The offices and research facilities of the School of Behavioral and Brain Sciences are located on the Richardson campus, and off-campus at the Callier Center for Communication Disorders-Dallas, the Center for BrainHealth, and the Center for Vital Longevity, which are adjacent to the campus of the UT Southwestern Medical Center at Dallas. Facilities on the Richardson campus include teaching and research laboratories for neuroscience, cognitive science, and facilities for the study of child development. The Center for Children and Families and Callier-Richardson provide a variety of clinical services to the community and serve as a research sites for graduate students.

The Center for BrainHealth and the Center for Vital Longevity are the primary facilities for the study of cognitive neuroscience. The Center for BrainHealth includes research activities in the areas of aging and neurogenic disorders in children and adults. The Callier Center-Dallas has its primary focus on speech, language, and hearing, and includes research laboratories, clinical services, and classroom programs for preschool children. The Center for Vital Longevity includes research on how the body and mind can successfully age together and uses cutting-edge brain imaging technologies and advances in cognitive science to identify the ‘neural signature’ of those at risk of not aging well and preventing problems before
symptoms occur. Collaborative arrangements with the UT Southwestern Medical Center expand student research opportunities including access to its clinical populations and neuroimaging facilities. The Center for Children and Families, housed in the School for Behavioral and Brain Sciences, offers an array of clinical and community outreach activities organized around three initiatives: parenting healthy families, strengthening interpersonal relationships, and enhancing thinking and learning.

Admission Requirements
The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

Admission to a doctoral program is based on a review of the applicant's transcripts, GRE scores, 3 letters of recommendation, and narrative description of research interests and career goals. In addition to academic requirements, the admissions committee weighs heavily the match between the applicant's research interests and the research areas available to students in the school. For information about faculty research interests, see our web pages at bbs.utdallas.edu.

Applications for admission are due December 1. Students are accepted for the Fall semester only. Some courses in the graduate programs in Audiology, Applied Cognition and Neuroscience, Communication Disorders, Human Development and Early Childhood Disorders, and Psychological Sciences complement doctoral coursework and, upon a student's admission to the PhD program, can be applied toward the degree. Students should consult with the doctoral program head to determine which graduate courses can be applied to the PhD.

Combining a Clinical Master's (MS) or Doctorate (AuD) with the PhD

Students seeking clinical certification from the American Speech-Language-Hearing Association in Speech-Language Pathology or Audiology, in addition to the PhD, may combine the masters program in Communication Disorders (speech-language pathology) or doctoral program in Audiology with the PhD programs in Communication Sciences and Disorders, Cognition and Neuroscience, or Psychological Sciences. An individualized plan of study leads to both degrees. Students are separately admitted to each program and admission to one program does not assure admission to the other. A minimum of 39 semester credit hours in the chosen PhD program must be taken in addition to the minimum credit hour requirements for the MS or AuD degrees.

Degree Requirements
The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

Students seeking the Doctor of Philosophy degree must complete 75 graduate semester credit hours.

Doctor of Philosophy in Cognition and Neuroscience

75 semester credit hours minimum beyond the baccalaureate degree
Doctoral Proseminar: 3 semester credit hours

HCS 6302 Issues in Behavioral and Brain Sciences - Part I

Research Methods: 6 semester credit hours minimum

HCS 6312 Research Methods in Behavioral and Brain Sciences - Part I
HCS 6313 Research Methods in Behavioral and Brain Sciences - Part II

Cognition and Neuroscience Core Courses: 6 semester credit hours minimum

Students must take a minimum of one Cognition Core and one Neuroscience Core, choosing from those listed below.

Cognition

HCS 6330 Cognitive Science
HCS 6395 Cognitive Psychology

Neuroscience

HCS 6338 Functional Neuroscience
HCS 6346 Systems Neuroscience

Advanced Electives: 9 semester credit hours minimum

In addition to completing the 6 semester credit hours core requirement, students take a minimum of 9 semester credit hours of advanced electives. Any HCS course may count as an advanced elective. This includes core courses (see above), though no course can be counted both as a core and an advanced elective for any single student. Advanced electives are selected by students with the concurrence of their research advisors based on the students' research foci. Depending on a student's background and research, additional advanced electives beyond the 9 semester credit hours minimum may be necessary.

Students with research interests in systems neuroscience are required to take the following courses:

Neuroscience

HCS 6340 Cellular Neuroscience
HCS 6341 Genes, Brain, and Behavior
HCS 7343 Neuropharmacology
HCS 6346 Systems Neuroscience

Cognition

Choose one course from the following:
HCS 6330 Cognitive Science
HCS 6395 Cognitive Psychology

Other approved course in Cognition or Cognitive Neuroscience

Depending on a student's background and research, additional advanced electives beyond the 15 semester credit hours minimum may be necessary.

Doctor of Philosophy in Communication Sciences and Disorders
75 semester credit hours minimum beyond the baccalaureate degree

Doctoral Proseminar: 3 semester credit hours

HCS 6302 Issues in Behavioral and Brain Sciences - Part I

Research Methods: 9 semester credit hours minimum

HCS 6312 Research Methods in Behavioral and Brain Sciences - Part I
HCS 6313 Research Methods in Behavioral and Brain Sciences - Part II

Other Approved Advanced Research Methods or Statistics course

Major Core Courses: 6 semester credit hours minimum

Students must complete a minimum of 6 semester credit hours of approved COMD or AUD prefixed courses. Courses meeting this requirement will vary depending on the student's research interests. The requirement may be waived for students holding a graduate degree in the field of speech-language pathology or audiology. Students lacking an adequate foundation in communication sciences may be required to complete more than the 6 semester credit hours minimum of core coursework.

Communication Sciences and Disorders: 3 semester credit hours minimum

All students must complete a minimum of 3 semester credit hours of doctoral coursework offered through the PhD program in Communication Sciences and Disorders.

Supplemental Coursework: 12 semester credit hours minimum

All students must complete an additional minimum of 12 semester credit hours of doctoral level courses and seminars. Courses may be selected from doctoral level coursework offered through the PhD programs in Communication Sciences and Disorders or, with advisor approval, from the

Deleted: course
Doctoral coursework offered through the PhD programs in Cognition and Neuroscience and Psychological Sciences.

Doctor of Philosophy in Psychological Sciences
75 semester credit hours minimum beyond the baccalaureate degree

Professional Development: 3 semester credit hours
- HCS 6302 Issues in Behavioral and Brain Sciences - Part I

Research Methods: 9 semester credit hours minimum
- HCS 6312 Research Methods in Behavioral and Brain Sciences - Part I
- HCS 6313 Research Methods in Behavioral and Brain Sciences - Part II
- HCS 7320 Advanced Research Methods in Behavioral and Brain Sciences
- and Data Analysis Using R
- Research Methods in Psychology

Psychological Science Core Courses: 12 semester credit hours minimum
Students will declare a concentration in Developmental Psychology, Cognition, or Social/Personality Psychology. Students must take four core courses from those listed below. Two of these courses must be selected from the concentration, and the four courses must be selected from at least two of the four areas listed.

Developmental Psychology
- HCS 6331 Cognitive Development
- HCS 6350 Social Development
- HCS 6368 Language Development

Cognitive Psychology
- HCS 6330 Cognitive Science
- HCS 6333 Memory
- HCS 6395 Cognitive Psychology

Social/Personality Psychology
- HCS 6327 Personality
- HCS 6376 Social Psychology

Neuroscience
Advanced Electives: 9 semester credit hours minimum

In addition to completing the 12 semester credit hours of core requirements, students will take an additional 9 semester credit hours of advanced electives. Any core course (see above) may count as an advanced elective, though it cannot count both as a core course and as an elective. One of these 3 semester credit hour elective courses must be an advanced research methods course. Students must take a minimum of four courses (core and electives) in their selected area of concentration. 

(Developmental, Cognitive, or Social/Personality)

Students may enroll in other advanced electives from the other doctoral course offerings available in the school, including courses in language and communication. Additional advanced electives are available each semester.

Additional Requirements (All PhD Programs)

All students must complete the Qualifying Project/Qualifying Paper requirements of the PhD degree sought. The successful defense of a written dissertation completes the requirements for the degree.
School of Economic, Political and Policy Sciences

As we begin the 21st century, the School of Economic, Political and Policy Sciences is strategically positioned to offer leadership in addressing society's most pressing concerns. Our mission is simple: develop scholars and practitioners who love to learn, individuals who can integrate knowledge and analyze sophisticated problems, and who are committed to advancing the search for truth and justice. Our domain is broad: risk management, economic performance, terrorism, voter behavior, health care, democratization, social inequality, international trade, and conflict resolution only hint at the wide variety of specific topics that must be addressed by informed social scientists. Our approach is comprehensive: strong disciplinary foundations, a dynamic interdisciplinary environment, and a striving to achieve a synthesis of theory-based knowledge and practical experience through internships, workshops, and seminars.

The School of Economic, Political and Policy Sciences awards master's degrees in Applied Sociology, Criminology, Economics, Geospatial Information Sciences (jointly with the School of Natural Sciences and Mathematics), International Political Economy, Justice Administration and Leadership, Political Science, Public Affairs, and Public Policy; and PhD's in Criminology, Economics, Geospatial Information Sciences (jointly with the Erik Jonsson School of Engineering and Computer Science and the School of Natural Sciences and Mathematics), Political Science, Public Affairs, and Public Policy and Political Economy. Each degree program offers a rigorous foundation with enough flexibility to specialize and earn additional certification in city planning, crime and justice analysis, economic and demographic data analysis, evaluation research, geographic information systems, geospatial intelligence, local government management, nonprofit management, and remote sensing. These certificate programs are available to degree-seeking as well as non-degree students seeking highly focused curricula that can benefit their professional development. We invite you to explore our programs, scrutinize our faculty, examine our resources, and, then, to join us as we prepare to face our future.

Degrees Offered

- Master of Arts in Political Science (30 semester credit hours minimum)
- Master of Arts in Political Science - Constitutional Law Studies (30 semester credit hours minimum)
- Master of Arts in Political Science - Legislative Studies (30 semester credit hours minimum)
- Master of Public Affairs (42 semester credit hours minimum)
- Master of Public Policy (36 semester credit hours minimum)
- Master of Science in Applied Sociology (36 semester credit hours minimum)
- Master of Science in Criminology (36 semester credit hours minimum)
- Master of Science in Criminology (Online) (36 semester credit hours minimum)
- Master of Science in Economics (36 semester credit hours minimum)
- Master of Science in Geospatial Information Sciences (36 semester credit hours minimum)
- Master of Science in International Political Economy (36 semester credit hours minimum)
- Executive Master of Science in Justice Administration and Leadership (30 semester credit hours minimum)
• Doctor of Philosophy in Criminology (75 semester credit hours minimum beyond the baccalaureate degree)

• Doctor of Philosophy in Economics (75 semester credit hours minimum beyond the baccalaureate degree)

• Doctor of Philosophy in Geospatial Information Sciences (75 semester credit hours minimum beyond the baccalaureate degree)

• Doctor of Philosophy in Political Science (75 semester credit hours minimum beyond the baccalaureate degree)

• Doctor of Philosophy in Public Affairs (76 semester credit hours minimum beyond the baccalaureate degree)

• Doctor of Philosophy in Public Policy and Political Economy (75 semester credit hours minimum beyond the baccalaureate degree)

Certificates Offered

• Certificate in Economic and Demographic Data Analysis (15 semester credit hours)

• Certificate in Geographic Information Systems (GIS) (15 semester credit hours)

• Certificate in Geospatial Intelligence (GeoInt) (15 semester credit hours)

• Certificate in Local Government Management (15 semester credit hours)

• Certificate in Nonprofit Management (15 semester credit hours)

• Certificate in Program Evaluation (15 semester credit hours)

• Certificate in Remote Sensing (15 semester credit hours)

Faculty


Professor Emeritus: Ronald Briggs, Royce Hanson

Clinical Professors: Donald R. Arbuckle, Linda Camp Keith, John R. McCaskill, Elmer Polk

Associate Professors: Bobby C. Alexander, R. Paul Battaglio Jr., Denise Paquette Boots, Patrick T. Brandt, Simon M. Fass, Doug Goodman, Dohyeong Kim, Tomislav Kovandzic, Xin (Sherry) Li, Sarah Maxwell, Susan Williams McElroy, Robert G. Morris, Clint Peinhardt, Kevin Siqueira, Sheryl L. Skaggs, Michael Tiefelsdorf, Lynne M. Vieraitis
Clinical Associate Professors: Brian Bearry, Douglas Dow, Karl K. Ho
Assistant Professors: Rodney Andrews, Jonas Bunte, Yongwan Chun, Nadine Connell, Anthony R.
Cummings, Monica Deza, Evgenia Gorina, James R. Harrington, Asli Leblebicioglu, Young-joo Lee, Banks P.
Miller, Meghna Sabharwal, Nicholas Vargas
Clinical Assistant Professors: Timothy M. Bray, Rodolfo Hernandez-Guerrero
Senior Lecturers: Teodoro Benavides, Bryan Chastain, Galia Cohen, Luba Ketsler, Irina Vakulenko

Objectives
There is increasing awareness of the impact that rapid technological, economic, and social change is having on society. The graduate programs in the School of Economic, Political and Policy Sciences are designed to prepare students for careers in the rapidly evolving public, private and nonprofit sectors by developing expertise in areas such as policy analysis, economic decision making, and public management. Our PhD Programs are also designed to prepare students for careers in both teaching and research. Each graduate program is discussed in more detail.

Facilities
Students have access to the computing facilities in the School of Economic, Political and Policy Sciences and the University's computer labs. The school has its own teaching laboratories. The University's computer labs also provide personal computers and UNIX workstations for student use. Databases, a computerized geographic information system, and Westlaw, a legal research system, are also available for student research. Doctoral students have opportunities to participate in research programs directed by members of the faculty. Further details are available in respective sections.

Admission Requirements
The University's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

All programs require applicants to have a baccalaureate degree from an institution of higher education, GRE or GMAT scores, transcripts, and letters of recommendation. Specific additional requirements are discussed for each program in their respective sections.

Prerequisites
The details for each program are discussed in their respective sections. Students may be required to take courses to prepare them for coursework.

Research
The School of Economic, Political and Policy Sciences offers graduate degrees in twelve master's programs and six PhD programs. These programs represent a wide range of both disciplinary as well as interdisciplinary courses for students. Our master's degree offerings include MS degrees in Applied Sociology, Criminology,
Economics, Geospatial Information Sciences, International Political Economy, Master of Public Affairs, and the Master of Public Policy degrees. The PhD programs include programs of study in Criminology, Economics, Geospatial Information Sciences, Political Science, Public Affairs, and Public Policy and Political Economy. The Economics and Political Science programs offer innovative courses of study in these disciplinary areas. The PhD in Public Policy and Political Economy combines rigorous methodological training with a strong substantive focus in different policy areas. The school also offers non-degree certificate programs in Economic and Demographic Data Analysis, Geographic Information Sciences (GIS), Geospatial Intelligence (GeoInt), Local Government Management, Nonprofit Management, Program Evaluation, and Remote Sensing.
School of Economic, Political and Policy Sciences

Graduate Programs in Criminology

Doctor of Philosophy in Criminology

75 semester credit hours minimum beyond the baccalaureate degree

Program Faculty

Professors: Bruce A. Jacobs, James W. Marquart, Alex Piquero, Nicole Leeper Piquero, Robert W. Taylor, John L. Worrall

Associate Professors: Denise Paquette Boots, Tomislav Kovandzic, Robert G. Morris, Lynne M. Vieraitis

Assistant Professor: Nadine Connell

Clinical Professor: Elmer Polk

Clinical Assistant Professor: Timothy M. Gray

Senior Lecturer: Galia Cohen

Mission

The mission of the Doctor of Philosophy in Criminology at The University of Texas at Dallas is threefold in nature, in order to:

1. Deliver high-quality education to a diverse body of graduate students regarding the etiology, control, and variation of lawbreaking across space and time.

2. Serve local, regional, and national communities through professional development programs, public policy analyses, evaluation research, program and policy design, and a forum for new approaches to the study of crime.

3. Advance the understanding of criminology through a multidisciplinary mix of theoretical and applied research.

Objectives

The doctoral program in Criminology is an interdisciplinary, research-oriented degree offered in conjunction with other graduate programs in the School of Economic, Political and Policy Sciences at UT Dallas. The objective of the PhD program is to provide students a coherent, yet intellectually challenging degree that adequately prepares them to conduct research among the many aspects of criminology and criminal justice,
varying with individual interests and areas of specialty. Graduates of the PhD program will be qualified to teach at the university level as professors. Graduates will also be competent to enter into analytic and administrative posts within the vast array of research and policy institutions, criminal justice organizations, and in the private sector.

Facilities

Students have access to the computing facilities in the School of Economic, Political and Policy Sciences and the university's computer labs. The school has four computing laboratories which have 24-30 computers that are network linked and equipped with major social science software packages, including EViews, STATA, PASW, Stata, LexisNexis database, and Westlaw for student use. The university's computer labs provide personal computers and UNIX Workstations. Data and reference materials are also available online via the library and the school's memberships in numerous organizations.

Application and Admission Requirements

The PhD Program in Criminology requires that applicants have completed a Master's in Criminology or similar discipline from an accredited institution of higher education. A graduate GPA (grade point average) of 3.50 and a GRE combined verbal and quantitative score of 300 are desirable, but students may be admitted at the program's discretion. All transcripts must be submitted, along with three letters of recommendation (preferably academic) and a one-page essay describing their background, education, and professional objectives. To be considered for funding opportunities, applications must be submitted in full by February 15. Students can apply as late as July 1, per university policy, but they will likely not be considered for funding opportunities. Students should note their desire to be considered for graduate funding in their letter of intent at the time of application. For more information please see our Graduate Handbook on our website www.utdallas.edu/epps/crim/.

Degree Requirements

In admission to the PhD in Criminology Program, a student must earn a minimum of 75 semester credit hours beyond the baccalaureate degree, pass a qualifying examination covering research methods/statistics, and successfully complete independent research. Students must fulfill the following requirements:

- Coursework: 75 credit semester credit hours of graduate study (minus transferred master's credit of 36 semester credit hours)
- Qualifying Examination covering Methods/Statistics
- Comprehensive Examination
- Doctoral Dissertation

A grade of B- or lower in any course requires that the class be retaken with only one retake allowed per course. If the retake results in a final grade of B- or lower, the student will be dropped from the program. In addition, all students must meet the university's minimum required GPA of 3.0 or higher. See the Criminology Graduate Program Handbook located on the Criminology website for more specific requirements.
Course Requirements

Coursework: 75 semester credit hours of graduate study (includes required master’s degree credit of 36 semester credit hours)

I. Criminology core classes (15 semester credit hours)
- CRIM 6307 Extent of Crime and Measurement
- CRIM 7300 Advances in Criminology Theory
- CRIM 7301 Seminar in Criminology Research and Analysis
- CRIM 7305 Professional Development in Criminology
- CRIM 7315 Evidence-based Crime Prevention

II. Methodology/Statistics core classes (9 semester credit hours)
- CRIM 6301 Research Design I
- EPPS 7313 Descriptive and Inferential Statistics
- EPPS 7316 Regression and Multivariate Analysis

A grade of B- or lower in any core graduate class requires that the class be retaken. Only one retake is allowed per course. If the retake results in a final grade of B- or lower, the student will be dropped from the program. In addition, all students must meet the university’s minimum required GPA of 3.0 or higher. See the Graduate Program Handbook located on the Criminology website for more specific requirements.

III. Methodology or Advanced Statistics Elective (3 semester credit hours)
Students must select one additional research methods or advanced statistics course. Students may select this course from any number of methodology or statistics courses offered through the School of Economic, Political, and Policy Sciences (EPPS).

Sample of Methodology or Advanced Statistics Courses:
- EPPS 6346 Qualitative Research Methods
- EPPS 6352 Evaluation Research Methods in the Economic, Political and Policy Sciences
- EPPS 7304 Cost-benefit Analysis
- EPPS 7318 Structural Equation and Multilevel (Hierarchical) Modeling
- EPPS 7344 Categorical and Limited Dependent Variables
- EPPS 7368 Spatial Epidemiology
- EPPS 7370 Time Series Analysis
- EPPS 7386 Survey Research
- EPPS 7390 Bayesian Analysis for Social and Behavioral Sciences

Comment [MV2]: This degree is incomplete due to the missing SCH. The count is 15 + 9 + 3 + (3 to 9) + 9 = 39 to 45 SCH. We need to include a generic statement to cover the remaining SCH. See email for further information.

Deleted: minus transferred or master’s semester credit hours up to 30 semester credit hours

Comment [TV3]: Ph add Phd version. Checking with nicky.

Deleted: methodology

Comment [DDC4]: Title Updated in 2015 catalog
IV. Independent Study (minimum of 3 semester credit hours)

Students take at least 3 semester credit hours of independent study in the spring semester of their second full academic year in order to prepare for comprehensive exams. Funded students will be required to take at least 9 semester credit hours in order to retain funding, as is the case in any other semester during which funding is awarded.

V. Dissertation Research (minimum of 9 semester credit hours)

A dissertation or a three-paper option requirement must be completed in order to successfully complete the Criminology doctoral program. Students will select a dissertation chair and a supervising committee to advise them through the research component of the doctoral requirement.

The dissertation is an original work initiated and completed by the doctoral candidate that demonstrates research competence and substantially adds to the knowledge in the candidate's field. The three-paper option is composed of a set of articles that together represent a significant and coherent contribution to our knowledge in the field of Criminology.

Regardless of the option selected, students will enroll in CRIM 8V99 during each semester until the research is completed and defended. The final dissertation defense is completed when the student's dissertation chair and supervising committee agree that the research has been satisfactorily completed.

Qualifying Methods Examination

Students must pass the Qualifying Methods Examination following the completion of the first academic year (or 18 semester credit hours) in order to continue in the Criminology PhD program. This exam is based on materials from the following four courses: (1) CRIM 6301 Research Design I, (2) EPPS 7313 Descriptive and Inferential Statistics, (3) EPPS 7316 Regression and Multivariate Analysis, and (4) CRIM 6307 Extent of Crime and Measurement. The exam will be administered once each year in late April or early May, prior to the close of the spring semester. Student performance will be evaluated as pass or fail. Those failing the Qualifying Methods Examination must retake the examination in August of the same year, near the end of the summer semester. Students not passing the Qualifying Methods Examination on the 2nd attempt will be dismissed from the program.

Comprehensive Examination

Students will sit for the Criminology comprehensive examination no sooner than the 5th academic semester upon admission to the doctoral program, unless approved by a Criminology Administrator. This exam is offered twice per year, during the first two weeks of each fall/spring semester, respectively. The comprehensive examination will test students' knowledge in two topical areas: theory and policy. Student performance will be evaluated as pass or fail on each section. Those failing a section of the exam will be given a second opportunity to pass the failed section within one year. Those who fail either section of the exam for the second time will be dismissed from the Criminology program.

Master of Science in Criminology

36 semester credit hours minimum
Program Faculty

Professors: Bruce A. Jacobs, James W. Marquart, Alex Piquero, Nicole Leeper Piquero, Robert W. Taylor, John L. Worrall

Associate Professors: Denise Paquette Boots, Tomislav Kovandzic, Robert G. Morris, Lynne M. Vieraitis

Assistant Professor: Nadine Connell

Clinical Professor: Elmer Polk

Clinical Assistant Professor: Timothy M. Bray

Senior Lecturer: Galia Cohen

Mission

The mission of the Master of Science in Criminology program at The University of Texas at Dallas is threefold, to:

1. Deliver high-quality education to a diverse body of students regarding the etiology, control, and variation of law-breaking across space and time.

2. Serve local, regional, and national communities through professional development programs, public policy analyses and evaluation research, program and policy design, and as a forum for new ideas and approaches to the study of crime.

3. Advance the understanding of criminology through a multidisciplinary mix of theoretical and applied research, as well as to provide a forum for new ideas and approaches to the study of crime.

Objectives

The Master of Science (MS) in Criminology provides students with a coherent yet intellectually challenging degree that prepares them to conduct interdisciplinary research among the many aspects of criminology and criminal justice, varying with individual interests and areas of specialty. Graduates of the MS program will be competent to teach at the community college and at the university level as adjunct lecturers. Graduates will also be ready to enter into analytic and administrative posts within a vast array of research and policy institutions, criminal justice organizations, and in the private sector.

Facilities

Students have access to the computing facilities in the School of Economic, Political and Policy Sciences and the university's computer labs. The school has four computing laboratories which have 24-30 computers that are network linked and equipped with major social science software packages, including EViews, RATS, SPSS and Stata. A computerized geographic information system, the Lexis database, and Westlaw are also available for student use. The university's computer labs provide personal computers and UNIX workstations. Many important data and reference materials are also available online via the library's and the school's memberships in numerous organizations.

Application and Admission Requirements
The Master of Science in Criminology seeks applicants from a baccalaureate in Criminology, Sociology, or a relevant discipline. A 3.2 undergraduate GPA and a combined GRE verbal and quantitative score of 300 are desirable, but students may be admitted at the program's discretion. All transcripts must be submitted, along with three letters of recommendation (preferably academic) and a one-page essay describing their background, education, and professional objectives. For more information please see our Graduate Handbook on our website.

**Prerequisites**

For the Master of Science in Criminology, students with an undergraduate degree in Criminology or a related field will have the necessary academic foundation to begin their graduate coursework (See the Graduate Program Handbook which is posted on the EPPS website for more information on Prerequisites and Transfer Policies at epps.utdallas.edu/crim).

**Program of Studies Policy**

Each student admitted to a graduate program will have a specific program of studies agreed upon in consultation with the Graduate Studies Committee or graduate advisor for Criminology per the degree plan for the program. A complete Program of Studies Form will be filled in and approved prior to the student's registration for his/her 19th semester credit hour to be counted toward a master's degree.

**Writing Requirement (MS in Criminology)**

All Doctoral track students must complete a writing requirement while enrolled in the MS Program. Students must take a minimum of six semester credit hours of CRIM 6V96 or CRIM 6V98, complete an independent paper, and present their findings in a colloquium setting to be eligible for graduation with the MS.

**Non-Writing Requirement Option for the MS in Criminology**

MS students on a terminal track who do not wish to be considered for admission into a doctoral program have the option of taking 6 semester credit hours of any graduate classes as electives in lieu of the writing requirement.

**Required Courses:** 15 semester credit hours

- CRIM 6300 Proseminar in Criminology
- CRIM 6301 Research Design I
- CRIM 6303 Etiology of Crime and Criminality
- CRIM 6311 Crime and Justice Policy
- EPPS 6310 Research Design I
- EPPS 6313 Introduction to Quantitative Methods

**Elective Courses:** 21 semester credit hours

**Comment [DDC8]:** With the removal of EPPS6310 there are now only 12 SCH in this section.

**Comment [DDC9]:** Removed from 2015 catalog

**Formatted:** 
- o underline, Underline color: Auto, Font color: Auto, Strikethrough, Not Expanded by / Condensed by
- Strikethrough
9 semester credit hours in Elective Criminology graduate courses

and 6 semester credit hours in any program or school outside Criminology

and 6 semester credit hours of CRIM 6V98 Analytical Writing Research (for PhD track students)
or 6 semester credit hours of graduate-level course electives (for students wishing to terminate at MS)

Master of Science in Criminology (Online)

Program Faculty

Professors: Bruce A. Jacobs, James W. Marquart, Alex Piquero, Nicole Leeper Piquero, Robert W. Taylor, John L. Worrall

Associate Professors: Denise Paquette Boots, Tomislav Kovandic, Robert G. Morris, Lynne M. Vieraitis

Assistant Professors: Nadine Connell

Clinical Professor: Elmer Polk

Clinical Assistant Professor: Timothy M. Gray

Mission

The mission of the Master of Science in Criminology program at The University of Texas at Dallas is threefold, to:

- Deliver high-quality education to a diverse body of students regarding the etiology, control, and variation of law-breaking across space and time.
- Serve local, regional, and national communities through professional development programs, public policy analyses and evaluation research, program and policy design, and as a forum for new ideas and approaches to the study of crime.
- Advance the understanding of criminology through a multidisciplinary mix of theoretical and applied research, as well as to provide a forum for new ideas and approaches to the study of crime.

Objectives

The Master of Science (MS) in Criminology provides students with a coherent yet intellectually challenging degree that prepares them to conduct interdisciplinary research among the many aspects of criminology and criminal justice, varying with individual interests and areas of specialty.

The fully online MS in Criminology offers students the convenience of completing coursework on their own schedules.

Facilities
Students have access to the computing facilities in the School of Economic, Political and Policy Sciences and the university’s computer labs. The school has four computing laboratories which have 24-30 computers that are network linked and equipped with major social science software packages, including EViews, RATS, SPSS and Stata. A computerized geographic information system, the LexisNexis database, and Westlaw are also available for student use. The university’s computer labs provide personal computers and UNIX workstations. Many important data and reference materials are also available online via the library’s and school’s memberships in numerous organizations.

Prerequisites

For the Master of Science in Criminology (online), students with an undergraduate degree in Criminology or a related field will have the necessary academic foundation to begin their graduate coursework (See the Graduate Program Handbook which is posted on the EPPS website for more information on Prerequisites and Transfer Policies at epps.utdallas.edu/crim).

Program of Studies Policy

Each student admitted to a graduate program will have a specific program of studies agreed upon in consultation with the Graduate Studies Committee or graduate advisor for Criminology per the degree plan for the program. A complete Program of Studies Form will be filed in and approved prior to the student’s registration for his/her 19th semester credit hour to be counted toward a master’s degree.

Non-Writing Requirement Option for the MS in Criminology

MS students on a terminal track who do not wish to be considered for admission into a doctoral program have the option of taking 6 semester credit hours of any graduate classes as electives in lieu of the writing requirement.

Required Courses: 15 semester credit hours

- CRIM 6300 Proseminar in Criminology
- CRIM 6301 Research Design I
- CRIM 6303 Etiology of Crime and Criminality
- CRIM 6311 Crime and Justice Policy
- EPPS 6310 Research Design I
- EPPS 6313 Introduction to Quantitative Methods

Elective Courses: 21 semester credit hours

15 semester credit hours in Elective Criminology graduate courses

And choose one set of 6 semester credit hours from the following:

- 6 semester credit hours of non-CRIM graduate electives (online, in any program or school)
- or 6 semester credit hours of CRIM 8V01 (for independent study project-directed by a faculty member)
Executive Master of Science in Justice Administration and Leadership

30 semester credit hours minimum

Program Faculty

Professors: Thomas L. Brunell, James W. Marquart, Robert W. Taylor, John Worrall

Associate Professors: Sarah Maxwell, Robert G. Morris

Clinical Professor: Elmer Polk

Senior Lecturer: Galia Cohen

Mission

The mission of the Executive Master of Science in Justice Administration and Leadership program at The University of Texas at Dallas is to:

- Deliver high-quality education to working professionals who in turn will examine the role of leadership within justice agencies and organizations.
- Prepare students to evaluate and apply relevant research findings on leadership and administration to lead, influence, and manage others in an increasingly diverse workforce and work environment.
- Advance the understanding of the consequences of change within justice organizations, and lead and manage personnel in periods of organizational change.
- Prepare students to apply relevant techniques of leadership, management, conflict resolution, and negotiation when confronted with change and subsequent conflict in justice and related organizations.

Objectives

The Executive Master of Science in Justice Administration and Leadership (MS-JAL) is housed in the Criminology Program and provides students with a coherent and intellectually challenging degree that prepares a new generation of leaders to manage and administer justice and other social service organizations. The program will deliver an innovative and integrated curriculum that connects such key components of leadership and administration in the justice setting as policy implementation and analysis, organizational behavior and change, planning and decision-making, and legal issues and conflict resolution to prepare students for supervisory and executive positions.

Facilities

Students have access to the computing facilities in the School of Economic, Political and Policy Sciences,
and the university's computer labs. The school has four computing laboratories which have 24-30 computers that are network linked and equipped with major social science software packages, including EViews, RATS, SPSS and Stata. A computerized geographic information system, the LexisNexis database, and Westlaw are also available for student use. The university's computer labs provide personal computers and UNIX workstations. Many important data and reference materials are also available online via the library's and school's memberships in numerous organizations.

**Graduate Assistantships**

Graduate teaching and research assistantships will not be available.

**Admissions Requirement**

The Executive Master of Science in Justice Administration and Leadership (MS-JAL) seeks applications from students with a baccalaureate degree from an institution of higher education or college. Although applications will be reviewed holistically, in general, entering students have earned a 3.0 undergraduate grade point average (on a 4.0 point scale). Students should also submit an online application, all transcripts, two letters of recommendation, a resume, and a one-to-two page essay outlining the applicant's background, education, and professional objectives. No GRE is required for admission, and no thesis is required for completion of the degree. Applications are reviewed by the MS-JAL Program Director and appropriate faculty in the School of Economic, Political and Policy Sciences.

**Prerequisites**

For the Executive Master of Science in Justice Administration and Leadership, students with a bachelor's degree in Criminal Justice, Criminology, Public Administration, or general business will have the necessary foundation for the master's degree. Students who lack this foundation should complete the following undergraduate courses at UT Dallas or their equivalents at another institution: CRIM 3302 Advanced Criminology, CRIM 3303 Advanced Criminal Justice, and CRIM 3304 Research Methods in Crime and Justice Studies. Prospective students with concerns about their preparation for the program are encouraged to consult with the program director.

**Degree Requirements**

Students seeking an Executive Master of Science in Justice Administration and Leadership degree must complete 30 semester credit hours of coursework in the program. The Core curriculum includes 12 semester credit hours in criminal justice policy and criminology, 9 semester credit hours in public administration and practice courses, 6 semester credit hours in legal aspects of administration and dispute resolution, and 3 semester credit hours of independent research acting as a capstone project to satisfy a writing requirement. Students must achieve at least an overall grade point average of 3.0 to graduate.

**Core Courses: 30 semester credit hours**

Criminology (12 semester credit hours)

- CRIM 6311 Crime and Justice Policy
**Administration of Justice Agencies**

**Contemporary Issues in Justice Administration**

One 3 semester credit hour CRIM elective (6000 level course)

**Public Administration (9 semester credit hours)**

- **PA 6316** Leadership in Public and Nonprofit Management
- **PA 6345** Human Resource Management
- **PA 6351** (CRIM 6351) Introduction to Homeland Security

**Legal Aspects and Dispute Resolutions (6 semester credit hours)**

- **CRIM 6312** Legal Aspects of Justice Administration
- **PA 6319** Topics in Public Affairs when topic is Negotiation and Dispute Resolutions

**Capstone Course Requirement (3 semester credit hours)**

- **CRIM 6399** Capstone in Justice Administration

Other courses may substitute for those listed with the approval of the Executive MS-JAL Director or the Criminology Program Head.

*Comment [MV13]:* NOTE for web catalog – correct heading / font to match the other headings, i.e. Criminology, Public Administration, etc. Capstone is part of the 30 SCH.
School of Economic, Political and Policy Sciences

Graduate Programs in Economics

Doctor of Philosophy in Economics

75 semester credit hours minimum beyond the baccalaureate degree

Program Faculty

Professors: Daniel G. Arce M., Kurt J. Beron, Dong Li, Todd Sandler, Donggyu Sul
Associate Professors: Xin (Sherry) Li, Susan Williams McElroy, Kevin Siqueira
Assistant Professors: Rodney Andrews, Monica Deza, Asli Leblebicioglu

Mission

The mission of the PhD in Economics is to provide a cutting-edge education in economic theory, the development of a rigorous toolkit of mathematical and econometric techniques, and in various research areas in economics. This education allows students to think critically about how to approach the analysis of economic problems and to contribute to the knowledge base of the discipline.

Facilities

Students have access to the computing facilities in the School of Economic, Political and Policy Sciences and the University's computer labs. The school has four computing laboratories which house 24-30 computers that are network linked and equipped with major social science software packages, including EViews, R, RATS, SPSS, and Stata. A computerized geographic information system, the LexisNexis database, and Westlaw are also available for student use. The University's computer labs provide personal computers and UNIX workstations.

Admission Requirements

The University's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

Applicants will be judged and evaluated by the existing admission standards as set forth by the University in its graduate catalog. These standards include a bachelor's degree from an institution of higher education,
fluency in written and spoken English, a grade average of 3.25 or better in upper-division and graduate course work in economics and related courses, submission of official Graduate Record Examination (GRE) scores: a quantitative score of 148 and a verbal score of 160. Students may also wish to consider submitting their score from the writing component of the GRE test as additional evidence of their writing skills. A score of at least 4.5 in analytical writing is considered desirable.

Standardized tests scores are only one of the factors taken into account in determining admission. Given the demands that will be placed on the student in his/her study of economics, a strong background in calculus, linear algebra, and mathematical statistics is highly desirable.

Students should submit all transcripts, three letters of recommendation, and a one-page essay outlining the applicant's background, reasons for choosing UT Dallas, prior educational experiences, and personal objectives.

**Prerequisites**

Students who lack the necessary background to start the program are advised to take courses at the School of Economic, Political and Policy Sciences to strengthen their preparation, but they will not receive credit towards their PhD program. The following courses may be used to gain the prerequisite knowledge (i) **ECON 3310** Intermediate Microeconomic Theory; (ii) **ECON 3311** Intermediate Macroeconomic Theory; (iii) **ECON 4351** Mathematical Economics; (iv) **EPPS 7316** Regression and Multivariate Analysis or **ECON 4355** Econometrics; (v) **EPPS 7313** Descriptive and Inferential Statistics or equivalent. It is also necessary to have had undergraduate courses in calculus and matrix or linear algebra. Additional math courses, such as differential equations, mathematical statistics and real analysis, are useful.

**Degree Requirements**

The University's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

Students seeking the PhD in Economics must complete 75 graduate semester credit hours. In addition, they must (i) complete core courses with an average GPA of 3.00; (ii) pass comprehensive exams in micro- and macroeconomic theory and in econometrics (although the econometrics exam will be waived for students who complete each of the required econometrics courses with an average grade of A- or better); (iii) submit an acceptable research paper by the beginning of the fourth year of study, (iv) be certified in two research areas within the science of Economics; and (v) submit an approved dissertation. The following paragraphs elaborate on these requirements.

Students are required to complete the following core courses:

- **ECON 6301** Microeconomics Theory I
- **ECON 7301** Microeconomics Theory II
- **ECON 7303** Microeconomics Theory III
- **ECON 6302** Macroeconomics Theory I
- **ECON 7302** Macroeconomics Theory II
- **ECON 6305** Mathematical Economics
• ECON 6309 Econometrics I
• ECON 7309 Econometrics II

In addition, they are required to register for the following courses at the appropriate stages of their study:

• ECON 7V01 Paper Seminar
• ECON 8V01 Dissertation Seminar

In order to assure that the student progresses satisfactorily, each student is required to consult with the Director of Graduate Studies (DGS) of Economics Programs prior to registration in every semester.

For research area certification, the student must select the two research areas, preferably during the second year of study (no later than the third), and advise the DGS of the selection. The DGS will, in conjunction with the Economics Curriculum Committee, advise the student regarding the appropriate certification requirements. The general guidelines for certification consist of an average of B+ or better in two courses within each area. At most, one of these courses can be a directed study. Directed studies may not be substituted for existing courses within an area. Examples of field areas include, but are not limited to: labor economics, public economics, experimental/behavioral economics, econometrics, applied microeconomics, applied econometrics, macroeconomics, game theory, industrial organizations, and geospatial information science.

The submission of an approved dissertation will complete the course of study for the PhD degree in Economics. The procedure for approval of the dissertation is outlined in the UT Dallas Graduate Catalog.

Master of Science in Economics

36 semester credit hours minimum

Program Faculty

Professors: Daniel G. Arce M., Kurt J. Beron, Dong Li, Todd Sandler, Donggyu Sul

Associate Professors: Xin (Sherry) Li, Susan Williams McElroy, Kevin Siqueira

Assistant Professors: Rodney Andrews, Monica Deza, Asli Leblebicioglu

Mission

The mission of the Master of Science in Applied Economics is to provide excellent graduate-level education in economics, with an emphasis on the development of theoretical understanding of economic phenomena, quantitative skills that can be applied to economic problems, and critical thinking to understand how best to apply economic theory and quantitative skills to real-world problems. Graduates of the Economics program will have an educational background that is conducive to employment in banking or financial institutions, insurance, consulting, corporate strategic planning, real estate, journalism, management, marketing, labor arbitration, regulation, environmental and urban and regional planning, and quantitative analysis. Graduates may also choose to undertake further studies in PhD programs in Economics, Political Economy, and
Political Science, as well as additional studies in business or law.

Facilities
Students have access to the computing facilities in the School of Economic, Political and Policy Sciences and the University's computer labs. The school has four computing laboratories which house 24-30 computers that are network linked and equipped with major social science software packages, including EViews, R, RATS, SPSS, and Stata. A computerized geographic information system, the LexisNexis database, and Westlaw are also available for student use. The University's computer labs provide personal computers and UNIX workstations.

Admissions Requirement
The master's program in Economics seeks applications from students with a baccalaureate degree from an institution of higher education. A 3.0 undergraduate grade point average (on a 4.0 point scale), and a verbal score of 156 and a quantitative score of 146 on the Graduate Records Examination (GRE). Students may also wish to consider submitting their score from the writing component of the GRE test as additional evidence of their writing skills. Standardized test scores are only one of the factors taken into account in determining admission. Students should also submit all transcripts, three letters of recommendation, and a one-page essay outlining the applicant's background, education and professional objectives.

Prerequisites
For the Master of Science in Economics, students with a Bachelor of Science in Economics and courses in calculus and matrix or linear algebra will have the necessary foundation in economics, statistics, and mathematics. Students who lack this foundation should complete the following undergraduate courses at UT Dallas or their equivalents at another institution: ECON 3310 Intermediate Microeconomic Theory, ECON 3311 Intermediate Macroeconomic Theory, ECON 4351 Mathematical Economics, ECON 4355 Econometrics, and EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Sciences, MATH 1326 Applied Calculus I, MATH 1326 Applied Calculus II, and MATH 2333 Matrices, Vectors, and Their Applications in order to begin the program.

Degree Requirements
The University's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

Students seeking a Master of Science in Economics degree must complete 36 semester credit semester credit hours of work in the program. The program has three components: 12 semester credit hours (four courses) of Required Core Courses (listed below), 9 semester credit hours of Economics Electives and 15 semester credit hours of Other Electives. Students must consult with the Director of Graduate Studies of the Economics Program each semester in order to determine the approved Economics Electives and Other Electives each semester. Students must achieve at least a 3.0 grade point average in the required courses and an overall grade point average of 3.0 to graduate.
Major Required Core Courses in Economics: 12 semester credit hours

ECON 5321 Microeconomic Theory for Applications
ECON 5322 Macroeconomic Theory for Applications
ECON 6305 Mathematical Economics
ECON 6306 Applied Econometrics

Advising note: If the student intends to enter the PhD program in Economics upon completion of the MS, then he or she should consider taking ECON 6301 Microeconomics Theory I instead of ECON 5321 and ECON 6302 Macroeconomics Theory I instead of ECON 5322.

Economics Elective Courses: 9 semester credit hours

Approved ECON courses numbered 5000 and above.

Other Elective Courses: 15 semester credit hours

Approved ECON courses numbered 5000 and above or approved graduate courses from other programs.

Advising note: If the student intends to enter the PhD program in Economics upon completion of the MS then he or she should consider taking ECON 7301 Microeconomics Theory II and ECON 7302 Macroeconomic Theory II as electives.
School of Economic, Political and Policy Sciences

Graduate Programs in Geospatial Information Sciences

Doctor of Philosophy in Geospatial Information Sciences

75 semester credit hours minimum beyond the baccalaureate degree

Faculty

Professors: Carlos L. V. Aiken, Brian J. L. Berry, Denis J. Dean, John F. Ferguson, Daniel A. Griffith, Fang Qiu, Hsing-Mean (Edwin) Sha, Robert J. Stem, Weili Wu, May Yuan

Associate Professors: Thomas H. Brikowski, Dohyeong Kim, David Lary, Michael Tiefelsdorf

Assistant Professors: Yongwan Chun, Anthony R. Cummings

Senior Lecturers: Bryan Chastain, Irina Vakulenko

Mission

The mission of the Doctor of Philosophy in Geographic Information Sciences program is to cultivate innovative researchers capable of advancing the frontiers of knowledge in the geospatial information sciences through improved theories, new technologies, innovative methodologies, sophisticated quantitative analyses, and integrative applications. Specifically, program graduates will:

- Demonstrate their knowledge of the fundamental theories and concepts underlying the geospatial sciences.
- Master the advanced methodologies and/or quantitative analyses used in at least one of three geospatial specialization areas: (a) computing and information management, (b) spatial analysis and modeling, or (c) remote sensing and satellite technologies.
- Produce innovative research that advances theory or methodology in the geospatial sciences.
- Participate at academic conferences, publish in peer-reviewed journals, and find employment in research departments of public and private organizations and in major academic institutions.
Objectives

This degree program is jointly offered by the School of Economic, Political and Policy Sciences, the School of Natural Sciences and Mathematics (specifically in the Department of Geosciences) and the Erik Jonsson School of Engineering and Computer Science, and is administered by the School of Economic, Political and Policy Sciences. This unique structure reflects geospatial information science's origins as the confluence of multiple disciplines including geography, computer science, engineering, geology, and various social, policy and applied sciences. It is anticipated that many students will enter the program with a bachelor's or master's degree (and/or work experience) in an application area (such as public administration, geology, or economics) or in a technical specialization (such as engineering, computer science, or statistics). These students may choose to pursue research projects that advance existing geospatial information sciences practices within that application area. Alternatively, students may opt to pursue research that expands the technological or theoretical base of all the geospatial information sciences.

Powerful technologies have emerged in recent years to collect, store, manage, analyze, and communicate information regarding the features of the Earth's surface and to combine these with other types of environmental, social, and economic information. These technologies, which include geographic information systems (GIS), the global positioning system (GPS), and remote sensing, are used in many ways, including the production of digital maps in vehicles, the management and maintenance of city infrastructure, agriculture and forestry, the policing of communities, and the conduct of modern warfare. The PhD in Geospatial Information Sciences aims to develop individuals capable of advancing this field by developing new knowledge or capabilities relevant to it.

Facilities

Students have access to state-of-the-art GIS computing facilities housed in the School of Economic, Political and Policy Sciences and at the NASA Center for Excellence in Remote Sensing in the Department of Geosciences. The University's extensive instructional computing facilities, including those in the Erik Jonsson School of Engineering and Computer Science, are also available. Facilities are open extended hours including evenings and weekends. Enrollment in hands-on courses is controlled to ensure that a computer workstation is available for every student. All major industry-standard GIS and remote sensing software is available. The University is a member of the University Consortium for Geographic Information Science (UCGIS).

Admission Requirements

The University's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission). The PhD program in Geospatial Information Sciences seeks applications from students with a baccalaureate, Master of Arts, Master of Science, or professional master's level degree in any field relevant to geospatial information science including, but not limited to, computer science, economics, engineering, geography, geology, management information systems, marketing, natural resource management, public affairs and public administration, statistics, and urban and regional planning.
Applicants will be judged and evaluated by the existing admission standards as set forth by the University in its Graduate Catalog and by the standards set forth here by the Geospatial Information Sciences program. A bachelor's degree from an accredited institution of higher education or its equivalent and fluency in written and spoken English are required. A grade average of at least 3.25 in undergraduate and graduate course work, and a combined verbal and quantitative score of 300 on the GRE are desirable. An analytical writing score of at least 4.5 in the GRE is considered desirable.

Applicants must submit transcripts from all higher education institutions attended, three letters of recommendation, and an essay outlining their background, education, and academic objectives as they specifically relate to a PhD in Geospatial Information Sciences.

Prerequisites

The following prerequisites/corequisites will also be required for admission to the PhD program: (i) college mathematics through calculus, (ii) competence in at least one modern programming language equivalent to GISC 6317 GIS Programming Fundamentals, and (iii) at least one course in inferential statistics through to regression analysis equivalent to GISC 6301 GIS Data Analysis Fundamentals, EPPS 7313 Descriptive and Inferential Statistics, or GEOS 5306 Data Analysis for Geoscientists. Graduate courses taken at UT Dallas to meet these prerequisites may be counted as electives toward the 75 semester credit hours required of students entering the PhD program directly from a BA or BS degree, but they shall not be considered substitutes for any other specified course.

Advising

Because of the cross-disciplinary nature of this doctoral program, to ensure adequate preparation and appropriate course sequencing, every doctoral student is required to consult with the student's designated advisor and/or the GIS Doctoral Program Director prior to registration in every semester. Students generally will not have a faculty advisor when they first enter the PhD program, but every student is required to select (with consent of the potential advisor) an advisor from the advising faculty by the end of his/her first academic year.

Degree Requirements

The University's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

To receive the PhD in Geospatial Information Sciences, students must complete the Geospatial Science Core (15 semester credit hours) to achieve a mastery of appropriate Geospatial Information Science technologies and theory, have Prescribed Specialization Electives (15 semester credit hours), have a Specific Application area or Technical field (12 semester credit hours), evidence research skills through successful completion and defense of a PhD dissertation, and take related electives as necessary for a total of 75 semester credit hours. A maximum of 6 semester credit hours can be taken at the 5000 level and the rest of them should be at the 6000 level or above. In addition, students must satisfy a set of exams and qualifiers. Other courses may be substituted for those listed below with the written permission in advance of the Director of the GIS Doctoral program.
Geospatial Science Core: 15 semester credit hours

Students must earn a minimum grade point average (GPA) of 3.0 across the following five courses:

- **GISC 6381 (GEOS 6381)** Geographic Information Systems Fundamentals
- **GISC 6325 (GEOS 5325)** Remote Sensing Fundamentals
- **GISC 6384 (GEOS 6384)** Advanced Geographic Information Systems
- **GISC 6385 (GEOS 6385)** GIS Theories, Models and Issues
- **GISC 7310** Advanced GIS Data Analysis

Prescribed Specialization Electives: 15 semester credit hours

Students may select any five courses from the following:

I. Geospatial Computing and Information Management

- **CS 6359** Object-Oriented Analysis and Design
- **CS 6360** Database Design
- **CS 6364** Artificial Intelligence
- **CS 6366** Computer Graphics
- **CS 6375** Machine Learning
- **CS 6384** Computer Vision
- **GISC 6317** GIS Programming Fundamentals
- **GISC 6388** Advanced GIS Programming
- **GISC 7363** Internet Mapping and Information Processing
- **MIS 6320** Database Foundations
- **MIS 6324** Business Intelligence Software and Techniques
- **MIS 6360** Agile Project Management
- **MIS 6326** Data Management

II. Spatial Analysis and Modeling

- **ECON 6309** Econometrics I
- **ECON 7309** Econometrics II
- **EPPS 7318** Structural Equation and Multilevel (Hierarchical) Modeling
- **EPPS 7370** Time Series Analysis
- **ECON 6316** Spatial Econometrics
**III. Remote Sensing and Satellite Technologies**

- **GISC 5322 (GEOS 5322)** GPS (Global Positioning System) Surveying Techniques
- **GISC 5324 (GEOS 5324)** 3D Data Capture and Ground Lidar
- **GISC 5330 (GEOS 5330)** Geospatial Applications in Earth Science
- **GISC 5395** Satellite Geophysics and Applications
- **GISC 7365 (GEOS 5326)** Advanced Remote Sensing
- **GISC 7366 (GEOS 5329)** Applied Remote Sensing
- **EESC 6360** Digital Signal Processing I
- **EESC 6363** Digital Image Processing

**IV. Customized Geospatial Specialization**

Identified by the student with approval in advance by the Director of the GIS Doctoral Program.

**Application Area or Technical Field (12 semester credit hours)**

Twelve semester credit hours of specialized course work in an application area or technical field relevant to GIScience. Normally, these will derive from the student’s master’s degree. These semester credit hours may be transferred from another institution, or taken at UT Dallas in an existing master’s program area and may be applied toward a master’s degree in that area.

*Application area* examples: planning, public affairs, criminal justice, health and epidemiology, geoscience, forestry, hydrology, marketing, real estate, economics, civil engineering, etc.

*Technical field* examples: statistics, computer science, software engineering, management information systems, image analysis, operations research/location science, instrumentation.
Research and Dissertation (variable semester credit hours)

All students must complete the following class as part of the research and dissertation requirement:

- **GISC 7387 GIS Research Design**

In addition, students must complete sufficient additional research and dissertation semester credit hours to bring the total number of semester credit hours they have earned within the UT Dallas doctoral program (or transferred into the UT Dallas doctoral program) to 75 semester credit hours, the minimum required to earn a doctoral degree. Additional research and dissertation semester credit hours above and beyond those required to reach the 75 semester credit hours minimum may be required at the discretion of the student's PhD advisor. Additional research and dissertation semester credit hours can be earned through any course from the following list:

- **GISC 6387 Geospatial Sciences Workshop**
- **GISC 6389 Geospatial Information Sciences Master's Research**
- **EPPS 6342 Research Design II**
- **GISC 8320 Geospatial Sciences Seminar**
- **GISC 8V29 Research in GIS**
- **GISC 8V99 or CS 8V99 Dissertation**

Other Related Electives (0 to 24 semester credit hours)

Students may choose up to 24 semester credit hours in related electives (from CS, GEOS, GISC, etc.) with consent of their advisor or the GIS Doctoral Program Director.

Exams and Qualifiers

Qualifying Examination

The GISC PhD Qualifier Examination is administered in May of a full-time doctoral student's first year, following the completion of the first academic year (i.e. fall and spring semester) by the student. This exam comprises of four parts, each based upon one of the following core courses:

- **GISC 6325 Remote Sensing Fundamentals**
- **GISC 6384 Advanced Geographic Information Systems**
- **GISC 6385 GIS Theories, Models and Issues**
- **GISC 7310 Advanced GIS Data Analysis**
A student must pass three of the four parts to pass the exam. If a student fails his/her exam, s/he may retake only the parts they failed in the subsequent August. If s/he does not pass a cumulative total of three parts after the August exam date, then s/he fails the Qualifier Examination, and is withdrawn from the GIS doctoral program.

**Defense of Proposal**

After completing the **GISC 7387** GIS Research Design class, doctoral students must successfully present and defend a dissertation proposal through an oral examination, according to uniform guidelines established by the GIS program.

**Grade Point Qualifier**

Doctoral students must have GPAs of at least 3.25, and preferably 3.5, in courses taken at UT Dallas at the time they register for **GISC 7387** GIS Research Design, or they must petition the GIS faculty for an exemption for extenuating circumstances beyond the student's control.

**Defense of Dissertation**

A dissertation must be prepared and defended successfully following the procedures established by the Dean of Graduate Studies.

Note: Individuals experienced with GIS may have the introductory course (**GISC 6381**) waived at the discretion of the Geospatial Information Sciences Program Head, but must take an additional course from the prescribed specialization elective courses listed above.

**Master of Science in Geospatial Information Sciences**

36 semester credit hours minimum

**Faculty**

- **Professors:** Carlos L. V. Aiken, Brian J. L. Berry, Denis J. Dean, John F. Ferguson, Daniel A. Griffith, James Murdoch, Fang Qiu, Hsing-Mean (Edwin) Sha, Robert J. Stern, Weili Wu
- **Associate Professors:** Thomas H. Brikowski, Dohyeong Kim, Michael Tiefelsdorf
- **Assistant Professors:** Yongwan Chun, Anthony R. Cummings
- **Senior Lecturers:** Bryan Chastain, Irina Vakulenko

**Mission**

The mission of both tracks of the Master of Science in Geospatial Information Sciences program is to provide students a rigorous understanding of the technologies, quantitative techniques, models and theories used to
acquire and manage spatially referenced information, analyze spatial processes, communicate spatial information, and provide spatial decision support. The second track has the additional mission of providing students with a thorough understanding of the scientific research method. UT Dallas graduates will have strong analytical and numerical skills, knowledge of empirical and quantitative research methodologies, and employ novel geographic information sciences technologies. They will use these capabilities to support public and private sector organizations, to address significant societal issues, and to enhance understanding of the human and natural environments. They will successfully compete at the highest level for jobs requiring geospatial skills and for entry into quality doctoral programs in relevant areas. More specifically, graduates of the program will:

- Possess a thorough knowledge of the technologies, quantitative techniques, models and theories used to acquire and manage spatially referenced information and to analyze spatial processes.
- Have strong analytical and numerical skills, knowledge of empirical and quantitative research methodologies, and be able to employ these skills and methodologies in novel geographic information sciences applications.
- Be able to identify and apply appropriate geospatial methodologies to support public and private sector organizations, to address significant societal issues, and to enhance understanding of the human and natural environments.
- Successfully compete at the highest level for jobs requiring geospatial skills and for entry into quality doctoral programs in relevant areas.

Objectives

Students may choose between two tracks within the Master of Science in Geospatial Information Sciences program. Both tracks are offered jointly by the School of Economic, Political and Policy Sciences and the School of Natural Sciences and Mathematics. The first track is a professional program that focuses on the use of Geographic Information Systems (GIS) and associated technologies such as remote sensing and global positioning systems for acquiring, describing, managing, analyzing and communicating spatially-referenced information in order to provide decision support.

This track emphasizes coursework, and involves a GIS Master’s Research class where a student needs to identify a faculty member as his/her master’s advisor, prepare a proposal for a professional GIS Master’s project, and conduct research under the supervision of the advisor. To obtain his/her master’s degree, a student must present the master’s project to the faculty and fellow students and successfully defend it. Students are expected to master the concepts underlying GIS, the skills for implementing GIS projects in public or private sector organizations, and the ability to use GIS in pure or applied research in substantive areas. Graduates can apply their skills in a variety of areas such as public administration and policy analysis; public safety, criminology, emergency preparedness management; environmental and resource management; urban, regional, social service and transportation planning and analysis; marketing, site selection, logistics and real estate; and resource exploration, including petroleum.

The second track of the Master’s of Science in Geospatial Information Sciences program is a conventional program that offers a balance between coursework and research. A student needs to register for a Master’s Thesis class (GISC 6V98) under a supervising advisor to conduct a research project, which will ultimately lead to a research-oriented master’s thesis. To obtain his/her master’s degree, a student must present the master’s thesis to the faculty and fellow students and successfully defend it. This track is aimed at students who want to hone their research skills, and is the preferred route for students who may want to move to a doctoral program. Graduates in this track can apply their skills to the same areas as graduates from the first track, but also have the option of moving into research-oriented jobs, and maximizing their ability to move
Facilities

Classes are offered through state-of-the-art GIS computing facilities housed in the School of Economic, Political and Policy Sciences and the NASA Center for Excellence in Remote Sensing in the Department of Geosciences. The University’s extensive instructional computing facilities are also available. Facilities are open extended hours including evenings and weekends. Enrollment in hands-on courses is controlled to ensure that a computer workstation is available for every student. All industry-standard GIS and remote sensing software is available. The University is a member of the University Consortium for Geographic Information Science (UCGIS).

Admissions Requirement

The University's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

For admission to the program, a baccalaureate degree from an accredited university or college is required and Graduate Record Examination (GRE) or Graduate Management Aptitude Test (GMAT) scores must be presented. A 3.0 undergraduate grade point average (on a 4.0 point scale), and a combined verbal and quantitative score of at least 295 on the GRE, or equivalent score on the GMAT, are desirable. Students must also submit transcripts from all higher education institutions attended, three letters of recommendation, and a personal statement, approximately one page in length, outlining their background, education and professional objectives.

Degree Requirements

The University's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

To earn the Master of Science in Geospatial Information Sciences, students must complete a minimum of 36 semester credit hours of work beyond the prerequisites. Both tracks of the program involve the core requirement of 15 semester credit hours, and prescribed electives for 18 semester credit hours. The two tracks differ in their research requirements (3 semester credit hours). Students must achieve at least a 3.0 grade point average in the core requirement and an overall grade point average of 3.0 to graduate. Other courses may be substituted for those listed below with the written permission in advance of the Geospatial Information Sciences Program Head.

Program Core Requirement - Both Tracks: 15 semester credit hours

Students must earn a minimum grade point average (GPA) of 3.0 in the following courses:

- **GISC 6301** GIS Data Analysis Fundamentals
- **GISC 6317** GIS Programming Fundamentals
- **GISC 6325** Remote Sensing Fundamentals
- **GISC 6381** Geographic Information Systems Fundamental
- **GISC 6384** Advanced geographic Information Systems
**Prescribed Electives (18 semester credit hours)**

- **CS 6359** Object-Oriented Analysis and Design
- **CS 6360** Database Design
- **CS 6366** Computer Graphics
- **CS 6384** Computer Vision
- **CS 6366** Computer Graphics
- **CS 6384** Computer Vision
- **GISC 5310** Hydrogeology
- **GISC 5311** Applied Groundwater Modeling
- **GISC 5322** GPS (Global Positioning System) Satellite Surveying Techniques
- **GISC 5395**
- **Satellite Geophysics and Applications**
- **GISC 6331** (CRIM 6332) GIS Applications in Criminology
- **GISC 6334** (PPPE 6334) Workshop in Environmental and Health GIS/Policy
- **GISC 6382** Applied Geographic Information Systems
- **GISC 6385** GIS Theories, Models, and Issues
- **GISC 6387** Geospatial Sciences Workshop
- **Advanced GIS Programming**
- **GISC 7310** Advanced GIS Data Analysis
- **GISC 7300** GIS Pattern Analysis
- **GISC 7361** Spatial Statistics
- **GISC 7363** Internet Mapping and Information Processing
- **GISC 7364** Demographic and Epidemiological Analysis and Modeling
- **GISC 7365** Advanced Remote Sensing
- **GISC 8320** Geospatial Sciences Seminar
- **MIS 6308** Systems Analysis and Project Management
- **MIS 6320** Database Foundations
- **MIS 6324** Business Intelligence Software and Techniques
- **MIS 6326** Data Management
- **PA 6318** Information Systems in Policy Environments

Choose one of the following Research Requirement Tracks:

**Research Requirement - Project Track: 3 semester credit hours**

- **GISC 6389** Geospatial Information Sciences Master's Research
AND successfully defend a professional GIS Master's Project

**Research Requirement - Thesis Track: 3 semester credit hours**

- **GISC 6V98** Master's Thesis
- AND successfully defend a GIS Master's Research Thesis

1. Individuals experienced with GIS may have the introductory course (GISC 6381) waived at the discretion of the Geospatial Information Sciences Program Head, but must take an additional course from the prescribed specialization elective courses listed above.
School of Economic, Political and Policy Sciences

Graduate Programs in Political Science

Doctor of Philosophy in Political Science

75 semester credit hours minimum beyond the baccalaureate degree

Faculty


Clinical Professor: Linda Camp Keith

Associate Professors: Patrick T. Brandt, Clint W. Peinhardt

Clinical Associate Professors: Brian Bearry, Karl K. Ho

Assistant Professor: Banks P. Miller

Mission Statement

The Doctor of Philosophy in Political Science provides a rigorous, disciplinary program with strong multidisciplinary links. The Program consists of innovative, state-of-the-science graduate education in political methodology and the fields of Comparative Politics and International Relations; Law and Courts; and Political Institutions and American Politics. In the first two years of the program, students acquire research skills and tools, work on research projects, and acquaint themselves with professional norms in the discipline. Later, they have opportunities to develop their instructional and presentation skills and to conduct research answering an important question (or questions) in the field. Throughout, emphasis is placed on preparing students for life after graduate school in academia, government, or industry.

Objectives

- Students will demonstrate the ability to apply political science and other social scientific theories to research questions.
- Students will develop the ability to apply advanced methodological training in understanding important political and social questions.
- Students will develop advanced skills in professional communication appropriate for presentation to professional audiences in academia, government, or industry.
Facilities

Students have access to the computing facilities in the School of Economic, Political and Policy Sciences and the University's computer labs. The school has four computing laboratories which house 24-30 computers each that are network linked and equipped with major social science software packages, including EViews, R, RATS, SPSS and Stata. A geographic information system, the LexisNexis database, and Westlaw are also available for student use. The University's computer labs provide personal computers and UNIX workstations. Many important data and reference materials are also available online via the library and the school's memberships in numerous organizations.

Admission Requirements

The University's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

Although applications will be reviewed holistically, in general, the Doctor of Philosophy in Political Science Program seeks applications from students with at least a baccalaureate degree from an institution of higher education. An undergraduate grade point average of at least 3.2 and a combined quantitative and verbal Graduate Record Examination (GRE) score of 310 are desirable. Standardized test scores are only one of the factors taken into account in determining admission. Applicants should submit all transcripts, three letters of recommendation, and a one-page essay describing educational and professional objectives.

Prerequisites:

While there are no specific course prerequisites, entering students will benefit from exposure to undergraduate courses in economics, political science, sociology, calculus, statistics, and research design.

Degree Requirements

The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

The PhD in Political Science requires a minimum of 75 post-baccalaureate graduate semester credit hours.

Full-time students can complete the degree in an average of 5 years. Students must receive a grade of B or better in all core courses and must maintain at least a 3.2 grade point average to graduate. If placed on probation, students will have one semester to bring their cumulative grade point average to a 3.0 or greater.

Semester Credit Hour Requirements

Students must complete the following:

- 18 semester credit hours of core courses
- Courses in Major Field: 12 semester credit hours
- Courses in Minor Field: 6 semester credit hours
- Core exam
- Field exam
- PSCI 8381 Research Seminar in Political Science (3 semester credit hours)
- Electives: at least 12 semester credit hours
- Matriculation to the dissertation phase
- Successful completion of a dissertation
- Successful completion of 75 semester credit hours.
The requirements are outlined in further detail below.

I. Core Courses (18 semester credit hours)

Core semester credit hours include three courses in Political Science methodology and theory, and three proseminars in the program fields.

Methodology (6 semester credit hours)
One of the following sequences:

- EPPS 6313 Introduction to Quantitative Methods and EPPS 6316 Applied Regression
- EPPS 7313 Descriptive and Inferential Statistics and EPPS 7316 Regression and Multivariate Analysis

All of the following: (12 semester credit hours)

- PSCI 6300 Proseminar in Comparative Politics and International Relations
- PSCI 6311 Proseminar in Law and Courts
- PSCI 6347 Proseminar in Political Institutions and American Politics
- PSCI 6350 Logic, Methodology, and Scope of Political Science

II. Major and Minor Field Courses (18 semester credit hours)

The field coursework consists of four courses (12 semester credit hours) taken in the student’s chosen major filed and two course taken (6 semester credit hours) in the student’s chosen minor filed for a total of 18 semester credit hours of coursework. Students may select their major and minors from the listed fields below.

Comparative Politics and International Relations

- PPPE 6319 Political Economy of MNCs
- PSCI 6305 Workshop in Constitutional Law Studies
- PSCI 6306 Human Rights and International Law
- PSCI 6309 International Political Economy
- PSCI 6316 International Organizations
- PSCI 6335 Institutions and Development
- PSCI 6337 Comparative Institutions
- PSCI 6342 Comparative Courts and Law
- PSCI 6352 Empirical Democratic Theory
- PSCI 6357 Political Economy of Latin America
- PSCI 6358 Refugee and Migration Policy

Comment [MV5]: This degree is incomplete due to the missing SCH. The count is 18 + 18 + (0 to 9) + 12 = 52 to 61 SCH. We need to include a generic statement to cover the remaining SCH. See email for further information.

Comment [MV6]: Missing section heading – Major / Minor fields?
PSCI 6362 Political Development
PSCI 6363 Conflict and Development
PSCI 6361 Political Violence and Terrorism
PSCI 6365 U.S. and International Asylum and Refugee Law
PSCI 6374 U.S. Global Security and Public Opinion
PSCI 7330 Contemporary International Security
PSCI 7335 Theories of International Relations
PSCI 7350 Institutions and Citizen Behavior

Political Institutions and American Politics

PSCI 6301 Constitutional Law
PSCI 6323 Public Choice
PSCI 6324 Local and State Government and Politics
PSCI 6330 Campaigns and Elections
PSCI 6331 Executives, Legislatures and Public Policy
PSCI 6333 Political and Civic Organizations
PSCI 6337 Comparative Institutions
PSCI 6339 Election Law and Electoral Systems
PSCI 6343 Law and the Policy Process
PSCI 6352 Empirical Democratic Theory
PSCI 7350 Institutions and Citizen Behavior
PSCI 7352 Choice and Decision Making Law and Courts
PSCI 6301 Constitutional Law
PSCI 6305 Workshop in Constitutional Law Studies
PSCI 6306 Human Rights and International Law
PSCI 6339 Election Law and Electoral Systems
PSCI 6342 Comparative Courts and Law
PSCI 6343 Law and the Policy Process
PSCI 6365 U.S. and International Asylum and Refugee Law

PPPE 6366 Law and Development

With approval of the Director of Graduate Studies or Program Head, other classes may be substituted for field courses.

III. Optional Concentration in Research Methods (9 semester credit hours)

Comment [DDC7]: Title matched to catalog
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Comment [DDC8]: Title matched to catalog
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Comment [DDC9]: Removed “and Policy” to match the title in the 2015 catalog.
Deleted: and Policy
Comment [DDC10]: PSCI 6366 does not exist in the catalog. PPPE 6366 is Law and Development.
Deleted: PSCI
Deleted: Minor Field Courses (6 semester credit hours)
Freely Chosen Electives (9 semester credit hours minimum)
Dissertation or Practicum Research (27 semester credit hours maximum)
Deleted: Concentration: optional
In addition to major and minor field concentrations, students who have completed EPPS 7313 and EPPS 7316 can complete a concentration in research methods by taking three courses from the following list.

- ECON 6306 Applied Econometrics
- ECON 6309 Econometrics I
- ECON 6316 Spatial Econometrics
- ECON 6320 Game Theory for the Social Sciences
- ECON 6380 Experimental Economics I
- ECON 7309 Econometrics II
- ECON 7315 Econometrics III
- ECON 7316 Game Theory

[Deleted: EPPS 6310 Research Design I]

- PPPE 6342 Research Design II
- EPPS 6346 Qualitative Research Methods
- EPPS 6352 Evaluation Research Methods in Economic, Political and Policy Sciences
- EPPS 7304 Cost-Benefit Analysis
- EPPS 7318 Structural Equation and Multilevel (Hierarchical) Modeling
- EPPS 7344 Categorical and Limited Dependent Variables
- EPPS 7370 Time Series Analysis I
- EPPS 7371 Time Series Analysis II
- EPPS 7390 Bayesian Analysis for the Social and Behavioral Sciences

[Deleted: PSCI 6325 Decision Theory]

Other EPPS courses as approved by the Director of Graduate Studies or Program Head.

IV. Core and Field Exams

To advance to the dissertation stage of the program, students must pass both core and field exams. Core exams are taken at the first scheduled opportunity once students have completed the core classes. Students must take the field exam at the first scheduled opportunity following completion of four approved major field courses.

V. Additional Coursework (12 semester credit hours minimum)

Students must take at least 12 semester credit hours of additional coursework.

Comment [DDC11]: Removed from the 2015 catalog

Comment [DDC12]: Title updated in 2015 catalog

Comment [MV13]: Add additional coursework section before the Core and Field Exams.

Comment [TV14]: Leave as is.
VI. Research Seminar (3 semester credit hours)
After the core and field exams have been successfully completed, students are required to enroll in PSCI 8381 Research Seminar in Political Science or in an independent study with their likely chair to develop their dissertation prospectus. Full-time students should defend their dissertation prospectus prior to the start of their 4th year.

VII. Electives and Dissertation Hours (variable semester credit hours)
In order to fulfill the 75 semester credit hour PhD requirement, students should enroll in a combination of additional electives and dissertation hours (PSCI 8V99 Dissertation). Students may not enroll in dissertation hours before they have successfully defended a dissertation proposal. No more than 6 semester credit hours of independent study (PSCI 7V83) may be taken, unless approved by the Director of Graduate Studies or Program Head.

VIII. Dissertation
There are two possible options of dissertation format. One is the “book-length” format. Another option is the “three-paper” dissertation, which consists of three papers that may or may not be thematically related. The submission of an approved dissertation will complete the course of study for the PhD degree in Political Science. The procedure for approval of the dissertation is outlined in the UT Dallas Graduate Catalog.

Master of Arts in Political Science
30 semester credit hours minimum

Faculty
Associate Professors: Patrick T. Brandt, Clint Peinhardt
Clinical Professor: Linda Camp Keith
Clinical Associate Professors: Brian Beary, Karl K. Ho
Assistant Professor: Banks P. Miller

Mission
The mission of the Master of Arts in Political Science (MAPS) degree is to offer advanced instruction in the social science literature and theories about politics, citizenship, and governance. The program serves the interests and needs of talented students who can commit initially to a 30-semester credit hour program but may be attracted subsequently to the PhD program, as well as those who can commit initially to the doctoral program but subsequently decide not to complete the program.

Objectives
Students in the Master of Arts in Political Science program will:

- Develop a competency in one of the fields of Comparative Politics and International Relations; Political Institutions and American Politics; or Law and Courts.
- Develop skills in professional communication appropriate to political science research and analysis.
- Develop competency in analysis, evaluation, and research design relevant to political science research and analysis.

Facilities

Students have access to the computing facilities in the School of Economic, Political and Policy Sciences and the University's computer labs. The school has four computing laboratories that have 24-30 computers that are network linked and equipped with major social science software packages, including EViews, R, RATS, SPSS, and Stata. A geographic information system, the LexisNexis database, and Westlaw are also available for student use. The University's computer labs provide personal computers and UNIX workstations. Many important data and reference materials are available online via the library and the school’s memberships in numerous organizations.

Admissions Requirement

The University’s general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

The Master of Arts in Political Science seeks applications from students with a baccalaureate degree from an institution of higher education. Although applications will be reviewed holistically, in general, entering students have earned a 3.0 undergraduate grade point average (on a 4.0 scale), and a combined verbal and quantitative score of at least 300 on the Graduate Records Examination (GRE). Standardized test scores are only one of the factors taken into account in determining admission. Applicants should also submit all transcripts, three letters of recommendation, and a one-page essay outlining the applicant’s background, education, and professional objectives.

Prerequisites

While there are no specific course prerequisites, entering students will benefit from exposure to undergraduate courses in the economics, political sciences, sociology, college algebra, statistics, public policy, and research design. In cases where undergraduate preparation is not adequate, students may be required to take additional course work before starting the master's program.

Degree Requirements

The University’s general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

Students seeking a Master of Arts in Political Science must complete at least 30 semester credit hours of work in the program, must receive a grade of B- or better in all required courses, and must maintain at least a 3.0 grade point average to graduate.
The curriculum has two components:

1. Fifteen semester credit hours of required coursework
2. Fifteen semester credit hours of prescribed electives

Required Courses: 15 semester credit hours

All students should complete the core courses as soon as possible.

All of the following courses:

- EPPS 6313 Introduction to Quantitative Methods
- PSCI 6300 Proseminar in Comparative Politics and International Relations
- PSCI 6311 Proseminar in Law and Courts
- PSCI 6347 Proseminar on Political Institutions and American Politics
- PSCI 6350 Logic, Methodology, and Scope of Political Science.

Prescribed Electives: 15 semester credit hours

Two additional courses at the 6000 or 7000 level in one of the following fields: Comparative Politics and International Relations; Political Institutions and American Politics; or Law and Courts.

Three additional political science courses at the 6000 or 7000 level, or EPPS methods courses offered throughout the School, or internship. Students may write an optional thesis by registering for three semester credit hours of independent study.

Master of Arts in Political Science - Constitutional Law Studies

30 semester credit hours minimum

Faculty

Professors: Thomas L. Brunell, Anthony M. Champagne, Murray J. Leaf, Marianne C. Stewart,

Associate Professors: Patrick T. Brandt,

Assistant Professor: Banks P. Miller

Clinical Professor: Linda Camp Keith

Mission

The mission of the Master of Arts in Political Science - Constitutional Law Studies degree is to provide students with the reasoning and analytic skills necessary to understand the technical rules of law, legal
practices and policies, and law more generally as a social phenomenon. It serves the interests and needs of students who want an intellectually rigorous legal education as preparation for law school, for more advanced graduate learning, or for law-related careers in teaching, journalism, government, policy-making, or the private sector.

Objectives

Students in the Master of Arts in Political Science - Constitutional Law Studies program will:

- Acquire detailed knowledge of the role of the judicial system in the evolution of public policy in the United States.
- Acquire detailed knowledge of the roles played by practicing attorneys in the development and application of public law in the United States.
- Develop competency in the application of theories of the evolution of constitutional law to United States Supreme Court decisions.
- Demonstrate the ability to conduct original research on law and courts using skills in legal research and writing, quantitative research or field research.

Facilities

Students have access to the computing faculties in the School of Economic, Political and Policy Sciences and University's computer labs. The school has four computing laboratories which house 24-30 computers each that are network linked and equipped with major social science software packages, including EViews, R, RATS, SPSS and Stata. A geographic information system, the LexisNexis database, and Westlaw are also available for student use. The University's computer labs provide personal computers and UNIX workstations. Many important data and reference materials are also available online via the library and the school's memberships in numerous organizations.

Admissions Requirement

The University's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

The Master of Arts in Political Science seeks applications from students with a baccalaureate degree from an accredited university or college - institution of higher education. Although applications will be reviewed holistically, in general, entering students have earned a 3.0 undergraduate grade point average (on a 4.0 point scale), and a combined verbal and quantitative score of at least 300 on the Graduate Records Examination (GRE). Standardized test scores are only one of the factors taken into account in determining admission. Applicants should also submit all transcripts, three letters of recommendation and a one-page essay outlining the applicant's background, education, and professional objectives. Applications are reviewed by the Political Science Program Committee in the School of Economic, Political and Policy Sciences.

Prerequisites

While there are no specific course prerequisites, entering students will benefit from exposure to undergraduate courses in the economics, political sciences, sociology, college algebra, statistics, public policy, and research design. In cases where undergraduate preparation is not adequate, students may be required to take additional course work before starting the master's program.
Degree Requirements

The University's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

Students seeking a Master of Arts in Political Science - Constitutional Law Studies must complete at least 30 semester credit hours of work in the program, must receive a grade of B- or better in all required courses, and must maintain at least a 3.0 grade point average to graduate.

The curriculum has two components:

1. Twelve semester credit hours of required coursework
2. Eighteen semester credit hours of prescribed electives

Required Courses: 12 semester credit hours

All of the following courses:

- EPPS 6313 Introduction to Quantitative Methods
  or EPPS 7313 Descriptive and Inferential Statistics
- PSCI 6301 Constitutional Law
- PSCI 6311 Proseminar in Law and Courts
- PSCI 6350 Logic, Methodology, and Scope of Political Science

Prescribed Electives: 18 semester credit hours

Choose six courses from the following:

- EPPS 6316 Applied Regression or EPPS 7316 Regression and Multivariate Analysis
- PPPE 6366 Law and Development
- PSCI 6304 Internship in Constitutional Law Studies
- PSCI 6305 Workshop in Constitutional Law Studies
- PSCI 6306 Human Rights and International Law
- PSCI 6331 Executives, Legislatures and Public Policy
- PSCI 6339 Election Law and Electoral Systems
- PSCI 6342 Comparative Courts and Law
- PSCI 6343 Law and the Policy Process
- PSCI 6365 US and International Asylum and Refuge Law

Other courses as approved by the Director of Graduate Studies or Program Head.
Master of Arts in Political Science - Legislative Studies

30 semester credit hours minimum

Faculty


Associate Professors: Patrick T. Brandt

Assistant Professor: Banks P. Miller

Clinical Professor: Linda Camp Keith

Mission

The mission of the Master of Arts in Political Science - Legislative Studies degree is to offer instruction for students interested in positions as legislative staff, political consultants, or other careers in professional politics. Students will receive instruction that moves beyond the standard coursework in American and Texas government and politics by advancing their knowledge of legislative processes and the role that legislatures play at the local, state, and national levels of government.

Objectives

Students in the Master of Arts in Political Science - Legislative Studies program will:

- Demonstrate knowledge of political institutions and processes in the United States and their effects on politics and policy.
- Demonstrate knowledge of issues in contemporary democracies involving representation, influence, and the balance of majority and minority interests, and the ability to evaluate political institutions and processes in the United States.
- Demonstrate proficiency in skills required for at least one position in the practice of politics by successfully completing an internship.

Facilities

Students have access to the computing faculties in the School of Economic, Political and Policy Sciences and University's computer labs. The school has four computing laboratories which house 24-30 computers each that are network linked and equipped with major social science software packages, including EViews, R, RATS, SPSS and Stata. A geographic information system, the LexisNexis database, and Westlaw are also available for student use. The

Deleted: . John L. Worrall

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Deleted: Clint W. Peinhardt, Gregory S. Thielemann

Deleted: pre-professional

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University's computer labs provide personal computers and UNIX workstations. Many important data and reference materials are also available online via the library and the school's memberships in numerous organizations.

Admissions Requirement

The University's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

The Master of Arts in Political Science seeks applications from students with a baccalaureate degree from an accredited university or college, institution of higher education. Although applications will be reviewed holistically, in general, entering students have earned a 3.0 undergraduate grade point average (on a 4.0 point scale), and a combined verbal and quantitative score of at least 300 on the Graduate Records Examination (GRE). Standardized test scores are only one of the factors taken into account in determining admission. Applicants should also submit all transcripts, three letters of recommendation, and a one-page essay outlining the applicant's background, education, and professional objectives.

Prerequisites

While there are no specific course prerequisites, entering students will benefit from exposure to undergraduate courses in the economics, political sciences, sociology, college algebra, statistics, public policy, and research design. In cases where undergraduate preparation is not adequate, students may be required to take additional course work before starting the master's program.

Degree Requirements

The University's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

Students seeking a Master of Arts in Political Science - Legislative Studies must complete at least 30 semester credit hours of work in the program, must receive a grade of B- or better in all required classes, and must maintain at least a 3.0 grade point average to graduate.

Major Required Courses: 9 semester credit hours

- EPPS 6313 Introduction to Quantitative Methods
- or EPPS 7313 Descriptive and Inferential Statistics

- PSCI 6347 Proseminar in Political Institutions and American Politics
- PSCI 6350 Logic, Methodology, and Scope of Political Science

Prescribed Electives: 9 semester credit hours

Three from the following list of courses:

- EPPS 6316 Applied Regression or EPPS 7316 Regression and Multivariate Analysis
- EPPS 7386 Survey Research

Deleted: Students have access to the computing facilities in the School of Economic, Political and Policy Sciences and the university's computer labs. The school has four computing laboratories that have 24-30 computers that are network linked and equipped with major social science software packages, including EViews, R, RATS, SPSS, and Stata. A computerized geographic information system, the LexisNexis database, and...
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>PSCI 6324</td>
<td>Local and State Government and Politics</td>
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<tr>
<td>PSCI 6330</td>
<td>Campaigns and Elections</td>
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<tr>
<td>PSCI 6331</td>
<td>Executives, Legislatures and Public Policy</td>
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<td>PSCI 6332</td>
<td>The U.S. Congress</td>
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<td>PSCI 6333</td>
<td>Political and Civic Organizations</td>
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<td>PSCI 6339</td>
<td>Election Law and Electoral Systems</td>
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<td>PSCI 6341</td>
<td>Texas Legislative Process</td>
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<td>PSCI 6343</td>
<td>Law and the Policy Process</td>
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<td>PSCI 6352</td>
<td>Empirical Democratic Theory</td>
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<td>PSCI 7350</td>
<td>Institutions and Citizen Behavior</td>
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<td>PSCI 6364</td>
<td>Public Opinion and Survey Research</td>
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<td>PSCI 6332</td>
<td>The U.S. Congress</td>
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**Free Electives: 6 semester credit hours**

Two additional courses at the 6000-level or above offered by programs in the School of Economic, Political and Policy Sciences, subject to approval by the Director of Graduate Studies or Program Head. These may include additional courses from the list above.

**Internship: 6 semester credit hours**

PSCI 6V42 Legislative Affairs Internship (6 semester credit hours total; can be spread over more than one semester). Internships can be done in Austin, TX or Washington, D.C., or with another state or local government agency or political organization.

1. Semester credit hours are counted as part of major core.
School of Economic, Political and Policy Sciences

Graduate Programs in Public Affairs

Doctor of Philosophy in Public Affairs

75 semester credit hours minimum beyond the baccalaureate degree

Faculty

Professor: L. Douglas Kiel

Associate Professors: R. Paul Battaglio Jr., Doug Goodman, Sarah Maxwell, Sheryl L. Skaggs

Assistant Professors: Evgenia Gorina, James R. Harrington, Young-joo Lee, Meghna Sabharwal, Nicholas Vargas

Clinical Professors: Donald R. Arbuckle, John R. McCaskill

Mission

The mission of the PhD in Public Affairs program is to prepare students for research-oriented careers in academia, policy analysis, and executive public/nonprofit management positions. The rigorous core curriculum provides advanced conceptual and theoretical training in the principal areas of public administration and management, including: public policy, intergovernmental relations, budget and finance, human capital, and organizational theory. Students develop analytical competencies through a sequence of research methods courses and technical knowledge in specific topics through a flexible elective sequence.

Objectives

Through a faculty-guided program of instruction, research and mentoring, students in the Public Affairs doctoral program develop a firm understanding of the broad intellectual tradition of public administration and related fields. The guiding philosophy of the degree is that "public affairs" involves more than mere functional administration, policy implementation or quantitative policy analysis. Rather, doctoral education in public affairs requires an interface between the traditions of public management, public policy, and organizations with a practical appreciation for the challenges of maintaining and building institutions of governance and a civic culture in a complex, democratic society.
The PhD in Public Affairs begins as a cohort program where entering students remain together through the completion of a core curriculum and the qualifying examination (QE), after which they are able to pursue one of several areas of concentration. The concentration allows students to take courses appropriate for their research interests. This structure produces shared experiences and progress through the program that enrich student learning and research.

Faculty Commitments

The faculty of the PhD program in Public Affairs is committed to assist students in meeting a set of clear and specific education- and research-related goals. The specific objectives for all graduates of the PhD in Public Affairs program are to:

1. **Demonstrate Comprehensive and Deep Knowledge**: Students will demonstrate their knowledge in principal fields of public administration and management, including: public policy, intergovernmental relations, organization theory, budget and finance, and human capital.

2. **Understand and Apply Theories and Processes of Knowledge Acquisition**: Students will demonstrate familiarity with key theories in each of the principal fields of public administration and management, and will apply this theoretical knowledge in the development of research projects ranging from course assignments to their dissertation research projects.

3. **Produce Scholarly Manuscripts and Publications**: Students, as scholars, will have the ability to execute research projects that utilize state of the art methodologies to produce scholarly manuscripts that are worthy of publication in the journals of the field.

4. **Develop, Present, and Defend Complex Ideas**: Students will have the ability to develop, present, and defend both orally and in writing complex ideas based on in-depth scholarly research.

Facilities

Students have access to the computing facilities in the School of Economic, Political and Policy Sciences and the University's computer labs. The school has four computing laboratories which house 24-30 computers that are network linked and equipped with major social science software packages, including EViews, R, RATS, SPSS, and Stata. A computerized geographic information system, the LexisNexis database, and Westlaw are also available for student use. The University's computer labs provide personal computers and UNIX workstations.

Application, Admission and Assistantships

**Application Deadlines**: Due to the cohort nature of the PhD program in Public Affairs, admissions are limited to the fall semester only. The application deadline for students seeking funding through assistantships is March 31. Applications for international students must be received by May 1 and June 1 for all required documentation (transcripts, test scores, letters of recommendation, etc.). The application deadline for U.S. Citizens and Residents is July 1 with all documentation (transcripts, test scores, letters of recommendation, etc.). These deadlines must be followed to ensure applications are given full consideration. The web-based application form can be accessed using the "Apply Now" link for each degree listing at: [www.utdallas.edu/admissions/graduate/degrees](http://www.utdallas.edu/admissions/graduate/degrees).
Admission Requirements: The program only admits students who have completed a master's degree from an institution of higher education. It is preferred that the master's degree is in public affairs or social science. A graduate GPA (grade point average) of 3.0 or better is expected. Prospective students must complete the University’s online graduate application and submit a narrative outlining 1) academic interests, 2) current or long-range interests in research, teaching, or other professional objectives, 3) description of publications or other scholarly endeavors, and 4) listing of academic and professional organizations and fellowships, scholarships, or other honors received. The Graduate Record Examination (GRE) is also required of all applications with a minimum verbal score of 156 and quantitative score of 152. International students whose native language is not English are also required to submit the Test of English as a Second Language (TOEFL) with a minimum score of 88, unless they graduated from a four-year college or university in the United States or other English speaking country. Students should submit examination scores and transcripts from all colleges previously attended to UT Dallas' Office of Admission and Enrollment Services. Three letters of recommendation from individuals (employers, community leaders, teachers, etc.) who are able to judge a student's probable success in graduate school are required. The letters may be sent directly to the program office or uploaded online.

International applicants without Permanent Resident Visas must submit evidence of financial support (financial affidavit and original bank statement) before they can receive the I-20 or other required documents needed for visa application.

Teaching Assistantships: Prospective students interested in receiving assistantships must have submitted all application materials including a Teaching Assistant (TA) application form by March 31 of the year they intend to start the program. Applications for the assistantships may be obtained from the Public Affairs Program Office. Offers of teaching assistantships will be made during the spring semester prior to fall enrollment, although additional appointments may be made as new positions become available each semester.

It is expected that those applying for a TA position can communicate effectively in both written and spoken English. State law and regulations of the Texas Higher Education Coordinating Board require that international students appointed as TA's be proficient in the use of the English language. An English Proficiency Interview conducted under the auspices of the office of the Dean of Graduate Studies will be used to screen for students requiring remedial help in the form of English as a Second Language (ESL) course. International students must satisfy the proficiency requirement upon appointment or pass the ESL course within two semesters to be eligible for consideration of continued appointment as a TA. Regardless of test scores, students must meet the language requirements of their programs.

Program Overview

The PhD in Public Affairs requires the completion of at least 75 semester credit hours including a minimum of 45 semester credit hours of coursework, 12 semester credit hours of dissertation work and up to 18 semester credit hours of transfer hours from previous graduate coursework. If less than 18 semester credit hours are approved for transfer then the student will be required to take additional coursework to meet the 75 semester credit hours requirement. To qualify for transfer credit, the student must have completed the graduate course work within the past 24 months at an institution of higher education and earned a grade of B or better. Grades of B- and courses completed through correspondence or extension are not eligible for transfer credit. The award of such transfer credit must be consistent with the University’s “Transfer of Credit” policy.
Prerequisites

Prior to enrolling in core classes for the PhD program, students must have completed a master's degree in public affairs/administration or related field and show evidence of completing a graduate level course within the past 24 months in statistics/quantitative methods and public policymaking/public institutions. A grade of B or better is expected in these course prerequisites.

Qualifying Exam (QE)

Students must pass the QE to continue in the PhD program. If a student fails the exam he or she will be dismissed from the program.

Students must have a grade of B or better in each of the four exam-related courses to be eligible to sit for the exam. Students who do not meet this requirement may choose to leave the program or repeat a course to earn a better grade (only one course may be repeated). Students are encouraged to review the University's Retaking Courses Policy. Students retaking an exam related course are required to enroll in the course in the next semester it is offered. Students will not be permitted to enroll in courses outside the doctoral core curriculum until successful completion of the QE.

1. The QE is based on four specified courses from the core curriculum. The exam comprises 3 sections: (1) general public affairs topics; (2) policy topics; and (3) research methods.

2. The QE is a classroom proctored test. It includes three 4-semester credit hour sessions, which will take place over a two day period. The specific days and location of the sessions will be designated by the department head and announced at the start of the spring semester.

3. Exams will be read and graded by a committee of Public Affairs faculty. Each section will be read by a minimum of two readers and given a Pass or Fail grade.

A student who fails two or more sections of the QE will be dismissed from the program.

If a student fails one section, he or she will be given the opportunity to retake that section. The retake exam will be given within four weeks of the original exam, and will be graded as described above (see 3). If the student passes the retake exam he or she may continue in the program.

Only under extreme, documented circumstances will a student be allowed to reschedule the QE. If an emergency arises, the student must notify the department head within 12 hours of the scheduled exam and request to take a rescheduled exam. If approved, the exam will be rescheduled within 2 weeks of the original exam date.

Required Courses and Dissertation: 75 semester credit hours

Required courses fall into three categories: core, research methods, and areas of concentration.

Students must earn a grade of B- or better for all three areas (core, research methods, and areas of concentration). Repeating a course for a higher grade will be permitted one time only; a student earning two or more grades lower than B- in their area of concentration will be dismissed from the program.
Program | Coursework

*** Indicates the four (4) courses included in the required qualifying examination taken following the first two semesters of coursework.

I. Public Affairs Core: 21 semester credit hours

PA 7305 Leadership and Change in Public and Nonprofit Organizations
PA 7306 Foundations of Public Affairs***
PA 7314 Advanced Policy Process, Implementation and Evaluation***
PA 7320 Advanced Human Capital Research and Theory
PA 7350 Advanced Organizational Theory and Behavior***
PA 7360 Advanced Fiscal and Budgetary Policy
PA 7375 Nonprofit Organizations: Theory and Practice

II. Research Methods: 9 semester credit hours

PA 7330 Research Design in Public Affairs***
EPPS 6316 Applied Regression
or EPPS 7316 Regression and Multivariate Analysis2

Choose ONE course from, the following:

EPPS 6346 Qualitative Research Methods
EPPS 7344 Categorical and Limited Dependent Variables
EPPS 7370 Time Series Analysis
EPPS 7386 Survey Research
EPPS 7390 Bayesian Analysis for Social and Behavioral Sciences

III. Concentration: 15 semester credit hours

Students choose one of the concentrations listed. Each concentration includes three required courses and two approved elective courses, for a total of 15 semester credit hours. Students may also choose the Customized and Directed Research option which includes 15 semester credit hours of approved electives.

Concentration 1: Policy Analysis and Evaluation
PA 6315 Evaluating Program and Organizational Performance

PA 7317 Economics and Public Policy

SOC 6340 Domestic Social Policy

6 semester credit hours of approved electives (6000 level or above)

Concentration 2: Human Capital

PA 6322 Negotiations for Effective Management

PA 6334 Ethics, Culture and Public Responsibility

PA 6386 Diversity Management

6 semester credit hours of approved electives (6000 level or above)

Concentration 3: Nonprofit Management

PA 6315 Evaluating Program and Organizational Performance

PA 6374 Financial Management for Nonprofit Organizations

PA 6389 Volunteer Management

6 semester credit hours approved electives (6000 level or above)

Concentration 4: Customized and Directed Research

Choose 5 courses; ALL courses must be pre-approved by the PhD Advisor or Program Head.

IV. Additional Coursework (variable semester credit hours)

Students may be required to take additional coursework as needed to meet the 75 semester credit doctoral degree requirement.

V. Dissertation Research: minimum of 12 semester credit hours

Option 1: A dissertation is an original work initiated and completed by the doctoral candidate that demonstrates research competence and substantially adds to the knowledge in the candidate’s field.

Option 2: A three-paper option is composed of a set of articles that together represent a significant and coherent contribution to our knowledge in the field of Public Affairs.

A dissertation or a three-paper option requirement must be completed for successful completion of the Public Affairs doctoral program. Students will select a dissertation chair and a supervising committee to advise them through the research component of the doctoral requirement.

Regardless of the option selected, students will enroll in PA 8340 Dissertation Seminar in Public Affairs at the beginning of the dissertation process and enroll in PA 8V99 Dissertation during each following semester until the research is completed and defended. The final dissertation defense is...
completed when the student's dissertation chair and supervising committee agree that the research has been satisfactorily completed.

To remain in good standing, student must be continuously enrolled in PA 8V99 each long semester while completing their dissertation.

Master of Public Affairs
42 semester credit hours minimum

Faculty

Professor: L. Douglas Kiel

Associate Professors: R. Paul Battaglio Jr., Doug Goodman, Sarah Maxwell

Assistant Professors: Evgenia Gorina, James R. Harrington, Young-joo Lee, Meghna Sabharwal, Nicholas Vargas

Clinical Professors: Donald R. Arbuckle, John R. McCaskill

Senior Lecturer: Teodoro Benavides

Mission

The Master of Public Affairs (MPA) program advances excellence in public service. The program accomplishes this mission through three sets of activities aimed at preparing its students to serve as capable and ethical stewards of the common good. It imparts essential knowledge, competencies and perspectives to a diverse array of future and current professionals in government and nonprofit organizations. It supports the wider community through in-service professional and leadership training, through policy and management analysis services, and it produces new knowledge through practice-centered research.

Objectives

The Master's degree in Public Affairs is a professional diploma that focuses on skills of management and analysis that contribute to successful carrying out of administrative and leadership responsibilities in government and nonprofit settings. The specific outcome objectives for students who graduate with the MPA degree are:

- An understanding of the philosophical, theoretical, and legal foundations of public management, policy making, and leadership in government and nonprofit settings;
- Proficiency in organizational and decision analysis, research and evaluation practice, and quantitative and qualitative techniques;
- Sound preparation for advanced study aimed at research centers;

Deleted: The program is designed to prepare students to build competencies and develop creative solutions for challenges in finance, leadership, human resource, and project management.
• Mastery of persuasive written and oral communication.

Facilities

Students have access to the computing facilities in the School of Economic, Political and Policy Sciences and the University’s computer labs. The school has four computing laboratories which have 24-30 computers that are network linked and equipped with major social science software packages, including Eviews, R, RATS, SPSS and Stata. A computerized geographic information system, the LexisNexis database, and Westlaw are also available for student use. The University’s computer labs provide personal computers and UNIX workstations. Many important data and reference materials are also available online via the library and school’s memberships in numerous organizations.

Admissions Requirement

The University’s general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

The Public Affairs Master’s program at UT Dallas typically admits only students who have an undergraduate GPA of 3.0 or better. Prospective students must complete the University’s online graduate application and submit a narrative outlining 1) academic interests, 2) current or long-range interests in research, teaching, or other professional objectives, 3) description of publications or other scholarly endeavors, and 3) listing of academic and professional organizations and fellowships, scholarships, or other honors received. International students whose native language is not English are also required to submit the Test of English as a Second Language (TOEFL) with a minimum score of 80, unless they graduated from a four-year college or university in the United States or other English speaking country. Students should submit examination scores and transcripts from all colleges previously attended to UT Dallas’ Office of Admission and Enrollment Services. Three letters of recommendation from individuals (employers, community leaders, teachers, etc.) who are able to judge a student’s probable success in graduate school and a current resume are required. The letters and resume should be uploaded online.

To be guaranteed consideration for admission, fall applications must be received by July 1 (late registration deadline is August 1). Applications for spring admission must be received by November 1 (late registration deadline is December 1). Any incomplete application received after these dates will not be considered for admission during the designated semester. Students who do not meet this deadline must reapply for the following semester.

In addition to the university’s transfer of credit requirements, a maximum of 9 semester credit hours of transfer credit can be applied to the MPA degree.

Prerequisites

While there are no specific prerequisites required for any MPA course, students who lack background in particular areas may be advised or required to take preparatory courses. In particular, students who lack background or experience in American political and policymaking institutions, in mathematics, and microcomputing may be required to develop proficiency in these areas before being admitted into certain courses. Students meet with the MPA Director to determine these requirements. Leveling courses will not...
count toward the MPA degree.
Degree Requirements

The University's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy). Students seeking a MPA degree must complete at least 42 semester credit hours of work in the program. The program has three components: a 24 semester credit hour core, 12 semester credit hours of directed electives within a chosen professional specialization and the 3 semester credit hour Capstone seminar (PA 6399). For students without evidence of at least 12 months full time managerial experience in the public or nonprofit sectors, 3 semester credit hours of internship credit are also mandatory. Students for whom the internship requirement is waived must complete PA 6348 Navigating the Public Service Workplace.

Grade Point Requirements

Students must maintain at least a 3.0 grade point average in the core courses and an overall grade point average (GPA) of 3.0 to graduate. If a student's GPA does not meet these standards, university policy concerning academic probation and removal from the program are in effect.

Program Coursework

Major Core: **24 semester credit hours**

All MPA students should complete the core courses as soon as possible, with the requirement that Introduction to Quantitative Methods (EPPS 6313) be taken during the first two long semester following admission. A full-time student entering the program will normally take two core courses and one additional course each semester. The Capstone or internship is usually undertaken during the final semester in the program.

Required core: **24 semester credit hours**

- **EPPS 6313** Introduction to Quantitative Methods
- **PA 6311** Public Management
- **PA 6313** Public Policymaking and Institutions
- **PA 6320** Organizational Theory
- **PA 6321** Government Financial Management and Budgeting
- **PA 6315 Evaluating Program and Organization Performance**
- **PA 6345** Human Resource Management
- **PA 6382** Nonprofit Management
Professional Specialization Courses: **12 semester credit hours**

Students select 12 semester credit hours of specialized courses from one of the following specialization tracks: Local Government Management, Nonprofit Management, and Policy Analysis. Students can also customize a track based on their career goals with the MPA Director's approval.

**Specialization 1: Local Government Management (12 semester credit hours)**

- PA 6300 Quality and Productivity Improvement in Government
- PA 6324 Urban Planning
- PA 6326 Decision Tools for Managers
- PA 6344 Local Government Management
- PA 6349 Municipal Governance in Seoul, Korea
- PA 6370 Project and Contract Management
- PA 6386 Diversity Management
- or other appropriate courses approved by the MPA Director

**Specialization 2: Nonprofit Management (12 semester credit hours)**

- PA 6369 Grant Writing and Management
- PA 6374 Financial Management for Nonprofit Organizations
- PA 6386 Diversity Management
- PA 6387 Strategic Planning for Nonprofit
- PA 6391 Nonprofit Marketing and Communication
- or other appropriate courses approved by the MPA Director

**Specialization 3: Policy Analysis (12 semester credit hours)**

- PA 6326 Decision Tools for Managers
- SOC 6340 Domestic Social Policy
- PA 7317 Economics and Public Policy
- PA 7377 Education Policy
- EPPS 6316 Applied Regression Analysis
- EPPS 7304 Cost-Benefit Analysis
- Appropriate advanced methods courses offered by an EPPS program
- or other appropriate courses approved by the MPA Director
Capstone Course: 3 semester credit hours

The Capstone in Public Affairs (PA 6399) is the culminating experience for graduating MPA students. Students integrate knowledge from across the MPA curriculum in a faculty-directed semester-long applied research project. This required 3 semester credit hour seminar should be taken during the semester in which the student intends to graduate.

Internship: 3 semester credit hours

Three (3) semester credit hours of internship credit (PA 6V97) are required for completing the MPA. The internship involves work in a professional capacity in an organization, under the joint supervision of an experienced professional mentor at the internship site and the MPA Internship Coordinator. The standard three semester credit hour internship requires 20-hours per week time commitment to the work experience for a total of 300 internship contact hours during the semester.

The objective of the internship is to provide an introduction to professional life and to establish sound approaches to the practice of public affairs. Students shall not take more than 6 semester credit hours of approved internship toward the MPA. Students with evidence of at least 12 months full-time managerial experience in the public or nonprofit sector will take PA 6348 Navigating the Public Service Workplace. Students who wish to seek the internship waiver must submit a formal written request to the MPA Director that includes a letter documenting the duration of their experience and its relevance to public or nonprofit management. This request must be approved no later than the student’s penultimate semester in the program. Students for whom the internship requirement is waived must complete an additional 3 semester credit hours of approved elective coursework in lieu of the internship.

1. Presumes algebra.
2. Presumes calculus.
School of Economic, Political and Policy Sciences

Graduate Programs in Public Policy and Political Economy

Doctor of Philosophy in Public Policy and Political Economy

75 semester credit hours minimum beyond the baccalaureate degree

Faculty

Professors: Brian J. L. Berry, Lloyd J. Dumas, Euel W. Elliott, Donald A. Hicks, Jennifer S. Holmes, Murray J. Leaf, Richard K. Scotch

Associate Professors: Patrick T. Brandt, Simon M. Fass, Dohyeong Kim, Clint Peinhardt

Assistant Professor: Jonas Bunte

Clinical Professor: Linda Camp Keith

Mission

The mission of the PhD program in Public Policy and Political Economy (PPPE) is to prepare our students for professional positions in research, teaching, and practice in fields related to public policy and political economy, in both academic and nonacademic settings. We prepare students through instruction in social science and public policy concepts, advanced methodological knowledge, applied social research techniques, and professional communication skills. PPPE students and faculty are encouraged to promote an inclusive and diverse environment that is committed to continued scholarship and service.

Objectives

• Students will demonstrate the ability to apply social science and public policy theories and concepts.

• Students will develop competency in advanced methods of social science and public policy research and analysis.

• Students will develop basic skills in professional communication appropriate to the public policy and political economy research and analysis.
Facilities

Students have access to the computing faculties in the School of Economic, Political and Policy Sciences and the University's computer labs. The school has four computing laboratories which house 24-30 computers each that are network linked and equipped with major social science software packages, including EViews, R, RATS, SPSS and Stata. A geographic information system, the LexisNexis database, and Westlaw are also available for student use. The University's computer labs provide personal computers and UNIX workstations. Many important data and reference materials are also available online via the library and the school's memberships in numerous organizations.

Admission Requirements

The University's general admission requirements are discussed on the Graduate Admission page. The PhD in Public Policy and Political Economy seeks applications from students with a baccalaureate degree from an institution of higher education. An undergraduate grade point average of at least 3.2, a score of 160 Verbal and a score of 148 Quantitative on the GRE, or equivalent score on the GMAT, are desirable. Standardized test scores are only one of the factors taken into account in determining admission. Students should also submit all transcripts, three letters of recommendation, and a one-page essay outlining the applicant's background, education, and professional objectives.

Prerequisites

While there are no specific course prerequisites, entering students will benefit from exposure to undergraduate courses in economics, political science, sociology, calculus, statistics, and research design.

Degree Requirements

The University's general degree requirements are discussed on the Graduate Policies and Procedures page. The PhD in Public Policy and Political Economy requires a minimum of 75 post-baccalaureate graduate semester credit hours. Full-time students can complete the degree in an average of 5 years.

Students must maintain a 3.0 cumulative GPA in their graduate courses in the degree program, and earn a grade of at least 3.0 (B) for all core courses. If placed on probation, students will have one semester to bring their cumulative grade point average to a 3.0 or greater. Any student who receives two Cs will not be allowed to continue in the program.

Students must complete the following:

- 33 semester credit hours of core courses
- 12 semester credit hours of field courses (six semester credit hours in two fields of the student's choice)
  - Development
  - International Conflict and Security
  - International Political Economy
  - Social and Health Policy
  - Business, Technology and Innovation
• 6 semester credit hours area of specialization (in one of the fields of the student's choice)
• A Methods Qualifying Examination in Quantitative Methods and Research Design
• Matriculation to the dissertation phase
• Successful completion of a dissertation
• Successful completion of 75 semester credit hours minimum including electives

The requirements are outlined in further detail below.

1. Major Core Requirements (33 semester credit hours)

Students complete a core sequence of courses as follows:

1. Six semester credit hours of coursework in Government and Public Policy:
   - PPPE 6347 Proseminar in Political Institutions and American Politics
   - PPPE 6329 Ethics, Culture, and Public Policy

2. Six semester credit hours of Theories of Political Economy
   - PPPE 6301 Political-Economic Theories
   - PPPE 6321 Economics for Public Policy

3. Fifteen semester credit hours of Analytical Methods
   Methods Core (Algebra-based or Calculus-based)
   
   Algebra-based series
   - EPPS 6313 Introduction to Quantitative Methods
   - EPPS 6316 Applied Regression
   
   or

   Calculus-based series
   - EPPS 7313 Descriptive and Inferential Statistics
   - EPPS 7316 Regression and Multivariate Analysis

   Students are strongly encouraged to take the calculus-based sequence, which is better preparation
   for the methods qualifying exam and more advanced methods courses.

   Students will also take at least three additional courses from a set of courses approved by the
   relevant graduate program committee. Students may obtain a list of those courses from the program
   office.

4. Six semester credit hours of Research Design
II. Field Courses (12 semester credit hours)

Students take a two course introductory sequence in two of the following five fields. The fields and required courses are as follows:

**Development**

- PPPE 6354 Theories and Issues of Development (Required)

Select one course from the following:
- PPPE 6335 Institutions and Development
- PPPE 6343 Global Health Policy
- PPPE 6352 World Political Economy
- PPPE 6362 Political Development
- PPPE 6363 Conflict and Development
- PPPE 6367 Environmental Economics and Policy
- PPPE 6370 Political Economy of Natural Resources
- PPPE 6371 Urban Development
- PPPE 6372 Faith, Ideology, and Development
- PPPE 6392 Practice of International Development

**International Conflict and Security**

Select two courses from the following:
- PPPE 6361 Political Violence and Terrorism
- PPPE 6369 National and International Security Strategies and Policies
- PPPE 6363 Conflict and Development
- PSCI 6300 Proseminar in Comparative Politics and International Relations
- PSCI 6306 Human Rights and International Law
- PSCI 7330 Contemporary International Security
- PSCI 7335 Theories of International Relations

**International Political Economy**

- PSCI 6309 International Political Economy (required)

Select one course from the following:
- PPPE 6319 Political Economy of MNCs
- PPPE 6352 World Political Economy

Deleted: of
Select two courses from the following:

- PPPE 6313 Human Organizations and Social Theory
- PPPE 6340 Domestic Social Policy
- PPPE 6341 Health Policy
- PPPE 6343 Global Health Policy
- PPPE 6350 Social Stratification
- PPPE 6356 Health and Illness

Select one course from the following:

- PPPE 6359 Political Economy of Economic Development
- PPPE 6365 The Innovation Economy

Select one course from the following:

- PPPE 6353 Industry, Technology, and Science Policy
- PPPE 6368 Political Economy of Finance
- PPPE 6373 Issues in Science, Technology and Society

Students may request that alternative courses be substituted in a particular field with the approval of the Program Head or Director of Graduate Studies. Moreover, students may, in consultation with the Program Head or Director of Graduate Studies, define a new field provided that appropriate coursework is available in a coherent research literature is identified.

III. Area of Specialization (6 semester credit hours)

The student takes at least six semester credit hours of additional coursework in one of the field areas as defined above. The specific required courses are designated by the faculty associated with that field of concentration and may be obtained from the program office. The student completes a dissertation in one of the two fields (see above) and must successfully defend the dissertation before a duly constituted dissertation committee, in accordance with the requirements of the University and the UT System.

IV. Methods Qualifying Exam and Matriculation to the Dissertation Phase

To advance to the dissertation stage of the program, students are evaluated based on a Methods Qualifying Examination (MQE).
The MQE will cover course material from (EPPS 6313 Introduction to Quantitative Methods and EPPS 6316 Applied Regression) and/or (EPPS 7313 Descriptive and Inferential Statistics and EPPS 7316 Regression and Multivariate Analysis), PPPE 6310 Research Design I and PPPE 6342 Research Design II. It is required that full-time (and 6 semester credit hours-a-semester part-time) students take EPPS 6313 or EPPS 7313 and PPPE 6310 the fall semester of the first year and EPPS 6316 or EPPS 7316 and PPPE 6342 in spring. The MQE is administered once a year in late April or May. Student performance will be evaluated as unsatisfactory, satisfactory, or excellent. Those failing the exam will be given a second opportunity to pass at the end of the summer. Those failing the MQE for the second time will not be allowed to continue in the program. Part-time students should seek to complete the required methods sequence by spring of their second year; courses noted above should be taken in the same basic sequence.

V. Dissertation Seminar

Students must register for PPPE 8398 Dissertation Seminar for a minimum of one semester after passing the MQE and workshop paper requirements. The aim of the Dissertation Seminar is to assist students in the formulation of a dissertation topic, and prepare a dissertation topic for submission to a dissertation committee, and defense of the proposal before the committee. The Dissertation Seminar can also be taken as an independent study course under the supervision of the student's likely dissertation supervisor. Students seeking advising concerning a suitable dissertation topic or appropriate supervisor are encouraged to consult with the Program Head or Director of Graduate Studies.

VI. Electives

Students take free electives in areas of interest to fulfill the 75-semester credit hour PhD requirement. PhD students should note that they are eligible to receive master's degrees offered by the School of Economic, Political and Policy Sciences (EPPS) while they matriculate toward the doctorate. These degrees include the Master of Public Policy and the MS in International Political Economy. Other EPPS master's degrees can be earned as well. Students interested in obtaining one of these degrees should consult the catalog requirements or the graduate advisor. No more than 6 hours of independent study (PPPE 8v01) may be taken, unless approved by the Director of Graduate Studies or Program Head.

1. Courses that count for multiple fields (concentrations) can only be applied to one field (concentration), and may not be double counted in two fields (concentrations) for an individual student.

Master of Science in International Political Economy

36 semester credit hours minimum

Faculty

Professors: Brian J. L. Berry, Lloyd J. Dumas, Euel W. Elliott, Donald A. Hicks, Jennifer S. Holmes, Murray J. Leaf, Richard K. Scotch
Mission

The mission of the Master of Science in International Political Economy is to offer an experience in interdisciplinary education and policy research through activities in graduate education, scholarly and applied inquiry, and professional service. Today, more careers increasingly require international knowledge and skills that transcend the confines of traditional disciplinary training. We prepare students for careers in research, teaching, and practice in a variety of both academic and non-academic public policy and political economy settings. The Master of Science in International Political Economy will develop students’ critical skill sets to meet the needs and demands of the international diplomatic and business sectors. These skills include critical thinking, knowledge of multiple cultures and cultural contexts, rigorous research skills, and the ability to communicate effectively in an array of environments. Students will be prepared to advance careers in policy and data analysis, and administrative positions in government, the nonprofit and private sectors.

Objectives

• Students will demonstrate the ability to apply social science and international political economy theories and concepts.
• Students will develop competency in advanced methods of social science and international political economy research and analysis.
• Students will develop basic skills in professional communication appropriate to international political economy research and analysis.
• Students will develop competency in analysis, evaluation, and research design relevant to social science and international political economy research and analysis.

Facilities

Students have access to the computing facilities in the School of Economic, Political and Policy Sciences and the University's computer labs. The school has four computing laboratories which house between 24-30 computers that are network linked and equipped with major social science software packages, including EViews, R, RATS, SPSS, and Stata. A computerized geographic information system, the LexisNexis database, and Westlaw are also available for student use. The University’s computer labs provide personal computers and UNIX workstations. Many important data and reference materials are also available online via the library and school's memberships in numerous organizations.

Admissions Requirement

The University's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).
The master's program in International Political Economy seeks applications from students with a baccalaureate degree from an institution of higher education. Although applications will be reviewed holistically, in general, entering students have earned a 3.0 undergraduate grade point average (GPA) (on a 4.0 point scale), and a verbal score of 156 and a quantitative score of 146 on the Graduate Records Examination (GRE). Standardized test scores are only one of the factors taken into account in determining admission. Students should also submit all transcripts, three letters of recommendation, and a one-page essay outlining the applicant's background, education, and professional objectives.

Prerequisites

While there are no specific course prerequisites, entering students will benefit from exposure to undergraduate courses in economics, political sciences, sociology, college algebra, statistics, public policy, and research design. Students are strongly encouraged to strengthen their foreign language skills.

Degree Requirements

The University's general degree requirements are discussed on the [Graduate Policies and Procedures](catalog.utdallas.edu/2015/graduate/policies/policy) page. Students seeking a Master of Science in International Political Economy must complete at least 36 semester credit hours of work in the program. The program has four components:

1. Eighteen semester credit hours of required coursework
2. Twelve semester credit hours of prescribed electives
3. Six semester credit hours of free electives
4. Students must demonstrate a foreign language proficiency equivalent to two years of university-level study in one foreign language before graduation.

Students must maintain a 3.0 cumulative GPA in their graduate courses in the degree program, including core courses. If placed on probation, students will have one semester to bring their cumulative grade point average to a 3.0 or greater. Any student who receives two Cs will no longer be allowed to continue in the program.

I. Major Required Courses: 18 semester credit hours

All students should complete the core courses as soon as possible.

**Economic Theory Core (take one course from the following):**

- PPPE 6321 Economics for Public Policy
- PPPE 6365 The Innovation Economy

**Methods Core (Algebra-based or Calculus-based)**

Algebra-based series

- EPPS 6313 Introduction to Quantitative Methods
- EPPS 6316 Applied Regression

or
Calculus-based series

EPPS 7313 Descriptive and Inferential Statistics
EPPS 7316 Regression and Multivariate Analysis

Choose one course from the following:
PPPE 6352 World Political Economy
PSCI 6309 International Political Economy

Choose one course from the following:
PPPE 6319 Political Economy of MNCs
PPPE 6335 Institutions and Development
PPPE 6362 Political Development
PPPE 6368 Political Economy of Finance
PSCI 6309 International Political Economy
PSCI 6316 International Organizations

Choose one course from the following:
PPPE 7V76 Policy Research Workshop in Development Studies
PPPE 6310 Research Design I
EPPS 6352 Evaluation Research in the Economic, Political and Policy Sciences

II. Prescribed Electives: 12 semester credit hours
Students complete 12 semester credit hours of Prescribed Electives. These consist of:

An area concentration in which the student completes two courses (six semester credit hours) in history, advanced language, or area studies courses that address a single region, including Europe, Latin America, or the Middle East/Greater Asia.

A theme concentration in which the student completes two courses (six semester credit hours) in development, international business and public policy, or international conflict and security.

Courses in both the area concentrations and theme concentrations must have the approval of the Program Head or Director of Graduate Studies. Internships and independent studies may count toward either area or theme concentrations, with the permission of the Program Head or Director of Graduate Studies.

III. Elective Courses: 6 semester credit hours
Students also select an additional six semester credit hours of coursework. Students may select courses from those courses not selected under Major Required Courses.
Faculty

**Professors:** Brian J. L. Berry, Lloyd J. Dumas, Euel W. Elliott, Donald A. Hicks, Jennifer S. Holmes, Murray J. Leaf, Richard K. Scotch

**Associate Professors:** Patrick T. Brandt, Simon M. Fass, Dohyeong Kim, Clint Peinhardt

**Assistant Professor:** Jonas Bunte

**Clinical Professor:** Linda Camp Keith

**Clinical Associate Professor:** Karl Ho

Mission

The Mission of the Master of Public Policy is to offer students an interdisciplinary graduate education designed to develop skills for careers in which a solid understanding of the public policy process and the analysis and evaluation of public policies are essential. Students will be prepared for analytical and administrative positions and responsibilities in a wide array of professional settings in the public, nonprofit, and private sectors as well as advanced study for careers in research. Specific skills include knowledge of the policy process and related ethical concerns, rigorous research skills that provide students with an essential grounding in statistical and data analysis and research design, and effective communication skills.

Objectives

- Students will understand and analyze the principal policy making institutions and the ways in which they formulate debate and implement public policies at the national, sub-national, and local levels. Students will examine legislative, executive, and non-governmental roles in policy formation at different levels of government. They will analyze the ways in which the various institutions interact and set policy priorities. They will study policy implementation and the interrelated functions of levels of governments, nonprofit and corporate entities in policy implementation.

- Students will learn and apply quantitative skills and economic theories to measure and evaluate public policies. They will learn when to apply appropriate techniques to complex policies. They will demonstrate an understanding of techniques to examine the preferred outcomes of policy alternatives to advise senior officials. Students will acquire skills in applying statistical measures of projected policy outcomes. Students will learn economic theories and acquire skills in applying those theories appropriately to establish policy objectives and outcomes.

- Students will understand the role of and learn appropriate, rigorous ways to design research to increase knowledge of public policy and citizen welfare. Students will learn ways to quantitatively and qualitatively design research projects that address important public policy questions and concerns.

- Students will learn and understand the unique role of ethical theories and behavior as it applies to the public and nonprofit sectors. Students will understand the ethical obligation of elected and appointed governmental officials to the body politic. Students will understand the functions of internal and public oversight of the formation and implementation of public policies.

- Students will develop expertise in a substantive area of public policy and learn how to effectively communicate new findings and innovative policies to senior decision makers and the general public. Students will study one of three major public policy disciplines - social policy, health policy or the
business-government relationship. Students will understand the theories and scientific principles that support these substantive policy areas and the ways in which those theories are tested. Students will understand how these policy areas contribute to the well-being of citizens to enhance the quality of life.

- Qualified students are encouraged to consider the PhD in Public Policy and Political Economy (PPPE). Such students should meet with Program Head or Director of Graduate Studies of PPPE as soon as possible to discuss options.

Facilities

Students have access to the computing facilities in the School of Economic, Political and Policy Sciences and the University's computer labs. The school has four computing laboratories which house between 24-30 computers that are network linked and equipped with major social science software packages, including EViews, R, RATS, SPSS, and Stata. A computerized geographic information system, the LexisNexis database, and Westlaw are also available for student use. The University's computer labs provide personal computers and UNIX workstations. Many important data and reference materials are also available online via the library and the school's memberships in numerous organizations.

Admissions Requirement

The University's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

The master's program in Public Policy seeks applications from students with a baccalaureate degree from an institution of higher education. Although applications will be reviewed holistically, in general, entering students have earned a 3.0 undergraduate grade point average (GPA) (on a 4.0 point scale), and a verbal score of 156 and a quantitative score of 146 on the Graduate Records Examination (GRE). Standardized test scores are only one of the factors taken into account in determining admission. Students should also submit all transcripts, three letters of recommendation, and a one-page essay outlining the applicant's background, education, and professional objectives.

Prerequisites

While there are no specific course prerequisites, entering students will benefit from exposure to undergraduate courses in the economics, political sciences, sociology, college algebra, statistics, public policy, and research design.

Grading Policy

In order to qualify for graduation, students must maintain a minimum 3.0 grade point average in their degree program's core courses plus an aggregate grade point average of 3.0 for all graduate courses taken in the student's degree program at UT Dallas.

Degree Requirements

The University's general degree requirements are discussed on the Graduate Policies and Procedures page.
Students seeking a Masters in Public Policy must complete at least 36 semester credit hours of graduate coursework in the program. The program has three components:

1. Twenty-one semester credit hours of required coursework
2. Nine semester credit hours of prescribed electives
3. Six semester credit hours of free electives

Students must maintain at least a 3.0 (B) grade point average to graduate.

I. Major Required Core Courses: 21 semester credit hours

Policymaking and Institutions (6 semester credit hours)
- PPPE 6347 Proseminar in Political Institutions and American Politics
- PPPE 6329 Ethics, Culture, and Public Policy

Methodology (Statistics, Research Design, and related courses - 9 semester credit hours)

Methods Core (Algebra-based or Calculus-based)
Algebra-based series
- EPPS 6313 Introduction to Quantitative Methods
- EPPS 6316 Applied Regression

or

Calculus-based series
- EPPS 7313 Descriptive and Inferential Statistics
- EPPS 7316 Regression and Multivariate Analysis

Select one course from the following:
- PPPE 6310 Research Design I
- EPPS 6352 Evaluation Research Methods in the Economic, Political and Policy Sciences

Economics (3 semester credit hours)
Choose one course from the following:
- PPPE 6321 Economics for Public Policy
- PPPE 6365 The Innovation Economy

Research Workshop or Internship (3 semester credit hours)
A PPPE Policy Research Workshop or internship or substitution as approved by the program head.
II. Prescribed Electives: 9 semester credit hours

Students complete nine semester credit hours in **ONE of the following** areas of concentration. All courses must be approved by the Program Head or Director of Graduate Studies.

- A. Social and Health Policy
- B. Security Studies
- C. Geographic Information Systems (GIS)
- D. Analytic Methods

Other concentration areas proposed by the student and approved by the program head.

Students should consult the graduate catalog, and the Program Head or Director of Graduate Studies, for additional information regarding those courses that would best satisfy the "Prescribed Electives" requirement.

III. Free Electives: 6 semester credit hours

Students may select six semester credit hours of 6000-level or higher courses. Students may choose courses that are not selected under "Major Required Core Courses" to fulfill this requirement and may choose courses outside the School of Economic, Political and Policy Sciences.
School of Economic, Political and Policy Sciences

Master of Science in Applied Sociology

36 semester credit hours minimum

Faculty

Professor: Richard K. Scotch
Associate Professors: Bobby C. Alexander, Sarah Maxwell, Sheryl L. Skaggs
Assistant Professor: Nicholas Vargas

Objectives

With an emphasis on the acquisition of theoretical knowledge and social research skills, the Master of Science degree in Applied Sociology (ASOC) is offered under two different options: (1) the thesis option, which is primarily designed for students continuing on for a PhD in sociology or other social science program; (2) the non-thesis option, which is primarily designed to prepare students for careers in policy analysis, program development and evaluation, and quantitative and qualitative data analysis. As public, private, and nonprofit organizations attempt to maximize their human and monetary resources, they often seek professionals with specialized skills to assess program demands and viability, evaluate program success, direct change and inform policy. Graduates of the ASOC program are trained to fill such roles and effectively apply their knowledge and skills in employment areas including healthcare, local, state and national government, nonprofit social services, community activism, marketing research, human resources, and business administration.

Although the MS in Applied Sociology is a terminal degree program, a number of our graduates have transitioned into UT Dallas’ doctoral program in Public Policy and Political Economy, as well as external sociology doctoral programs throughout the country. Students planning to apply to a doctoral program are strongly encouraged to pursue the master’s thesis option. The program is open to full-time and part-time students, with many of our classes offered in the late afternoon and evenings. Students may enter the program in the fall, spring or summer semesters.

Facilities

Students have access to the computing facilities in the School of Economic, Political and Policy Sciences and the university's computer labs. The school has four computing laboratories which have over 24-30 computers that are network linked and equipped with major social science software packages, including EViews, R, RATS, SPSS and Stata. A computerized geographic information system, the LexisNexis database, and Westlaw are also available for student use. The university's computer labs provide personal computers and UNIX workstations. Many important data and reference materials are also available online via the library's and the school's memberships in numerous organizations.
Admission Requirements

The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission). The Master of Science in Applied Sociology (ASOC) seeks applications from students with a baccalaureate degree from an institution of higher education. Although applications will be reviewed holistically, in general, entering students should have earned a 3.0 undergraduate grade point average (GPA) (on a 4.0 point scale) and optimally have a Graduate Records Examination (GRE) verbal score of 156 and a quantitative score of 152. Standardized test scores are only one of the factors taken into account in determining admission. Students should also submit all transcripts, three letters of recommendation, and a one-page essay outlining personal background, education, and professional objectives.

Prerequisites

There are no required prerequisite courses in sociology for the Applied Sociology program, although prior coursework in social theory, research methods, and social statistics is desirable. Prospective students with concerns about their preparation for the Applied Sociology program are encouraged to consult with the program coordinator.

Grading Policy

To qualify for graduation, students must have earned a grade of B or better in each of the program's core courses plus an aggregate grade point average of 3.0 for all graduate courses taken in the student's degree program at UT Dallas.

Degree Requirements

The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

Students may select the thesis or non-thesis option. The ASOC has three components and requires the completion of 36 semester credit hours.

Thesis Option

Course Requirements

- 15 semester credit hours of core courses in Applied Sociology and EPPS
- 12 semester credit hours of Applied Sociology guided electives
- 3 semester credit hours of Economic, Political and Policy Sciences (EPPS) electives
- 6 semester credit hours of thesis research

The master's thesis is supervised by the student's major professor and the thesis committee, chosen in consultation with the major professor. The thesis committee may include a faculty member from another program with the approval of the major professor. Students are advised to consult with the graduate program director in selecting a major professor and thesis committee members. Students must pass a
publicly announced defense of the thesis before it is submitted to the Graduate School. A passing grade on the defense is required in order to graduate. The date for the thesis defense should be early enough for required revisions (if any) to be made prior to the Graduate School deadline for submission. The thesis must conform to all Graduate School requirements.

Non-Thesis Option

Course Requirements

- **15** semester credit hours of core courses in Applied Sociology and Economic, Political and Policy Sciences (EPPS)
- 15 semester credit hours of Applied Sociology guided electives
- **6** semester credit hours of EPPS electives

The ASOC requires the completion of 36 semester credit hours: **15** semester credit hours of core courses in Applied Sociology, 15 semester credit hours of Applied Sociology guided electives, and **6** semester credit hours of electives from any graduate program in the School of Economic, Political and Policy Sciences (EPPS).

I. Major Core Courses in Applied Sociology and EPPS: **15** semester credit hours

- **PA 7330 Research Design in Public Affairs**
- **EPPS 6313 Introduction to Quantitative Methods**
- **SOC 6350 Social Stratification**

Choose one course from the following:

- **EPPS 6316 Applied Regression**
- **EPPS 6346 Qualitative Research Methods**

Choose one course from the following:

- **SOC 6340 Domestic Social Policy**
- **SOC 6312 Social-Economic Theories**

II. Applied Sociology Guided Elective Courses: 12 semester credit hours (Thesis Option) or **15** semester credit hours (Non-Thesis Option)

Any graduate-level courses with a SOC prefix outside of the core may be applied to this requirement. Students may apply other graduate social science courses related to Sociology, including an appropriate graduate-level internship, with the permission of the program coordinator.

III. Economic, Political and Policy Sciences (EPPS) Electives: **3** semester credit hours (Thesis Option) or **6** semester credit hours (Non-Thesis Option)

Any 5000 or 6000 level courses in the School of Economic, Political and Policy Sciences may be applied to this requirement. Students are encouraged to consult with the program coordinator in
order to select courses appropriate for their academic and professional career goals.

**IV. Thesis Research (Thesis Option Only): 6 semester credit hours**

For further information about the Applied Sociology Program, contact Katie Doctor-Troup (kld015500@utdallas.edu, 972-883-4936), see our web page at [www.utdallas.edu/epps/soc](http://www.utdallas.edu/epps/soc), or contact the program coordinator: Dr. Sheryl L. Skaggs (slskaggs@utdallas.edu, 972-883-4460).
School of Economic, Political and Policy Sciences

Certificate Programs

The School of Economic, Political and Policy Sciences offers seven graduate certificate programs for both degree and non-degree seeking students. Certificate programs are a valuable component of the school's educational mission and can be an important resource for both mid-career professionals and others seeking to advance their knowledge and expertise. The certificates are offered in: Economic and Demographic Data Analysis, Geographic Information Systems (GIS), Geospatial Intelligence (GeoInt), Local Government Management, Nonprofit Management, Program Evaluation, and Remote Sensing.

Graduate Certificate in Economic and Demographic Data Analysis: 15 semester credit hours

The Certificate in Economic and Demographic Data Analysis may be acquired by graduate degree-seeking and non-degree seeking students. For the certificate, students must complete 15 graduate semester credit hours (5 courses).

Students are required to take:

- **EPPS 7313** Descriptive and Inferential Statistics
- **EPPS 7316** Regression and Multivariate Analysis

Students must choose at least one course from the following:

- **ECON 6306** Applied Econometrics
- or **EPPS 7318** Structural Equation and Multilevel (Hierarchical) Modeling
- or **EPPS 7344** Categorical and Limited Dependent Variables

In addition, two other empirically oriented courses must be completed. Students should check with the Director of the Certificate Program or the program office for details as to the list of acceptable courses.

Students seeking the certificate who do not plan to seek a degree should (1) submit an application and (2) an undergraduate transcript. No GRE score is required. Note: (a) up to 15 semester credit hours of coursework taken as a non-degree seeking student can be applied later to a graduate degree; (b) currently enrolled students may use up to 9 semester credit hours of courses required for their degree for the certificate. Non-degree seeking students interested in continuing their graduate education must formally apply to the university and their program of interest to be considered for admission.

Courses for the certificate must be completed within a 3-year period with a minimum cumulative GPA of 3.0.
Graduate Certificate in Geographic Information Systems (GIS): 15 semester credit hours

The School of Economic, Political and Policy Sciences offers a certificate in Geographic Information Systems for both novice and experienced GIScience professionals. Classes are offered through the state-of-the-art facilities housed within the Geospatial Information Sciences program in the School of Economic, Political and Policy Sciences. The certificate is available to both graduate degree-seeking and non-degree seeking students. The certificate requires 15 graduate semester credit hours (5 classes). All courses taken as part of this certificate also count toward the Master of Science in Geospatial Information Sciences degree, and can be taken in conjunction with the Graduate Certificate in Geospatial Intelligence and the Graduate Certificate in Remote Sensing.

Admission Requirements

Students seeking the GIS Certificate must have completed an undergraduate degree. Students may complete and submit an application for admission online. Primary admissions requirements are: (1) an application to UT Dallas and (2) an undergraduate transcript. Applicants for the certificate program do not need a GRE (Graduate Record Examination) score or letters of reference for admission to the certificate program. They should apply as "non-degree seeking" students to the Geospatial Information Sciences program. Admissions requirements are the same for students who would simply like to take one or more of the related courses without pursuing certification. Up to 15 semester credit hours of coursework taken in the certificate program can be applied later in a graduate degree, if desired.

Registration by Current UT Dallas Students

Graduate students in any degree program within UT Dallas may register for GISC courses using standard registration procedures. Students should see their program advisor regarding degree plan credit assignment. Courses are listed under geospatial information sciences (GISC) in the UT Dallas class schedule with additional offerings under Geosciences (GEOS).

The Graduate Certificate in Geographic Information Science requires 15 semester credit hours earned through the following courses:

Two Required Courses (6 semester credit hours)

GISC 6381 (GEOS 6381) Geographic Information Systems Fundamentals
GISC 6384 (GEOS 6384) Advanced Geographic Information Systems

Two elective courses chosen from the following or as approved by the Director of the Certificate Program (6 semester credit hours)

GISC 5322 (GEOS 5322) GPS (Global Positioning System) Satellite Surveying Techniques
GISC 5324 (GEOS 5324) 3D Data Capture and Ground Lidar
GISC 6301 GIS Data Analysis Fundamentals
GISC 6317 GIS Programming Fundamentals
GISC 6325 (GEOS 5325) Remote Sensing Fundamentals
GISC 6385 (GEOS 6385) GIS Theories, Models and Issues
GISC 6388 Advanced GIS Programming
GISC 7310 Advanced GIS Data Analysis
GISC 7360 GIS Pattern Analysis
GISC 7361 Spatial Statistics
GISC 7363 Internet Mapping and Information Processing
GISC 7365 (GEOS 5326) Advanced Remote Sensing

One Required Research Project Course (3 semester credit hours)
GISC 6387 (GEOS 6387) Geospatial Sciences Workshop

Students should take this course with varied research topics if different certificate programs are pursued.

No more than two courses can be transferred from another institution. Courses for the certificate must be completed within a 3-year period with a minimum cumulative GPA of 3.0.

Graduate Certificate in Geospatial Intelligence (GeoInt): 15 semester credit hours

Geospatial Intelligence (GeoInt) is a rapidly evolving field that demands certain technical skill sets, the ability for individual rapid critical thinking, and a global awareness of supporting information for national security and other intelligence activities. This certificate program produces graduates that have met the requirements for such professionals set forth by the United States Geospatial Intelligence Foundation (USGIF).

Classes are offered through the state of the art facilities housed within the Geospatial Information Sciences program in the School of Economic, Political and Policy Sciences. The certification requires 15 graduate semester credit hours (5 classes) detailed below. All courses taken as part of this certificate also count toward the Master of Science in Geospatial Information Sciences degree, and can be taken in conjunction with the Graduate Certificate in Geographic Information Systems and the Graduate Certificate in Remote Sensing.

Mission

The mission of the Graduate Certificate in Geospatial Intelligence is to provide students with a broad set of skills in the areas of geographic information systems, remote sensing, geospatial statistical analysis, intelligence gathering, and global positioning systems. Courses will emphasize these skills along with the ability to find and interpret data, conduct accurate analysis, work in a professional and collaborative environment, and communicate effectively. UT Dallas geospatial intelligence certificate graduates will have demonstrated to the intelligence community that they have acquired the basic skills needed for employment in this high growth industry.
Registration by Current UT Dallas Students

Graduate students in any degree program within UT Dallas may register for GISC courses using standard registration procedures. Students should see their program advisor regarding degree-plan credit assignment. Courses are listed under geospatial information sciences (GISC) in the UT Dallas class schedule with additional offerings under Geosciences (GEOS) and Management Information Systems (MIS).

Required Coursework (15 semester credit hours)

Three required courses:

- **GISC 6301** GIS Data Analysis Fundamentals
- **GISC 6325 (GEOS 5325)** Remote Sensing Fundamentals
- **GISC 6381 (GEOS 6381)** Geographic Information Systems Fundamentals

One elective course chosen from the following, or as approved by the Director of the certificate program:

- **GISC 5322 (GEOS 5322)** GPS (Global Positioning System) Satellite Surveying Techniques
- **GISC 5324 (GEOS 5324)** 3D Data Capture and Ground Lidar
- **GISC 6317** GIS Programming Fundamentals
- **GISC 6379** Special Topics in Geographic Information Sciences
- **GISC 6384 (GEOS 6384)** Advanced Geographic Information Systems
- **GISC 6385 (GEOS 6385)** GIS Theories, Models and Issues
- **GISC 6388** Advanced GIS Programming
- **GISC 7310** Advanced GIS Data Analysis
- **GISC 7360** GIS Pattern Analysis
- **GISC 7361** Spatial Statistics
- **GISC 7363** Internet Mapping and Information Processing
- **GISC 7365 (GEOS 5326)** Advanced Remote Sensing
- **GISC 7366 (GEOS 5329)** Applied Remote Sensing
- **GISC 7387** GIS Research Design
- **MIS 6320** Database Foundations
- **MIS 6324** Business Intelligence Software and Techniques
- **MIS 6360** Agile Project Management

Comment [DDC1]: Title updated in 2015 catalog

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One required research project course:

GISC 6387 (GEOS 6387) Geospatial Sciences Workshop

Students should take this course with varied research topics if different certificate programs are pursued.

No more than two courses can be transferred from another institution. Courses for the certificate must be completed within a 3-year period with a minimum cumulative GPA of 3.0.

Graduate Certificate in Local Government Management: 15 semester credit hours

The School of Economic, Political and Policy Sciences offers a Graduate Certificate in Local Government Management for local government professionals and for MPA students who desire to broaden their knowledge of important issues and approaches employed by professional local public administrators. Local governments in the United States play an important role in our democratic system. They are the place in our democratic system where citizens have the most direct contact with elected and appointed officials on numerous issues.

Local government managers operate in a complex legal and political environment. They are responsible for the provision of varied services directly to citizens, such as land use planning, law enforcement, water and sewer services, and recreation. Both the method and quality of service delivery are greatly influenced by managers who are hired by elected officials. The management of cities and counties has become increasingly professional over the past several decades. How the professional staff delivers services to the public within the political environment in which it works is the topic of many of the courses in this program. Students will gain knowledge and skills that will allow them to lead and manage in local government settings; learn critical thinking and strategic thinking; and learn to communicate in a strategic manner.

Requirements for admission to the certificate program are the same as for a non-degree seeking graduate student. Completion of fifteen (15) semester credit hours is required to attain the Graduate Certificate in Local Government Management and those semester credit hours may count toward a degree if the student completes all requirements for full admission as a graduate student.

Required courses are:

PA 6321 Government Financial Management and Budgeting
PA 6342 Local Economic Development
PA 6344 Local Government Management
PA 6345 Human Resources Management

Related elective Permission from the Public Affairs Program Head or MPA Director is required

The related elective may be selected from among courses that pertain to local government offered in the graduate programs of the School of Economic, Political and Policy Sciences. Permission of the certificate coordinator/Public Affairs Program Head/MPA Director must be obtained for the related elective course.

Courses for the certificate must be completed within a 3-year period with a minimum cumulative GPA of 3.0.
Graduate Certificate in Nonprofit Management: 15 semester credit hours

Nonprofit organizations constitute an increasingly significant sector of the American economy as well as an essential element in American civic life. Nonprofits are found in such diverse fields as health care, education, human services, and criminal justice, as well as in cultural and civic activities. Faced with resource constraints and rising demands for accountability, nonprofit organizations require professional managers with an understanding of both administrative principles and techniques and of the distinctive legal, economic, and social environment within which nonprofits operate.

The Certificate in Nonprofit Management is designed to provide an overview of the nature and context of nonprofit organizations combined with skill-based courses to develop the competencies needed by nonprofit managers. The certificate is intended for professionals already working in the nonprofit sector, those working in private for-profit or governmental settings who would like to work or volunteer in the nonprofit sector, and students without professional experience who seek to prepare themselves for nonprofit careers.

Completion of fifteen (15) semester credit hours are required to attain the Certificate in Nonprofit Management and those semester credit hours may be counted toward a degree if the student completes all requirements for full admission as a graduate student.

Required courses are:

- PA 6369 Grant Writing and Management
- PA 6374 Financial Management for Nonprofit Organizations
- PA 6382 Nonprofit Management
- PA 6315 Evaluating Program and Organizational Performance

Related elective Permission from the Public Affairs Program Head or MPA Director is required

Courses for the certificate must be completed within a 3-year period with a minimum cumulative GPA of 3.0.

Graduate Certificate in Program Evaluation: 15 semester credit hours

A graduate-level certificate program in Program Evaluation is offered by the School of Economic, Political and Policy Sciences. Students who complete this program have an opportunity to gain competencies in the design and implementation of program evaluations in fields such as education, health care, human services, criminal justice, and economic development. The Certificate in Program Evaluation may be incorporated into graduate degree programs in the School of Economic, Political and Policy Sciences, or may be taken independently by non-degree seeking students. Students pursuing the certificate program are normally expected to have completed undergraduate courses in statistics and in research methods. Students lacking appropriate preparation may be asked to take needed courses prior to admission to the program.
In order to receive the certificate, students must successfully complete a total of 15 semester credit hours of focused study, comprising of three required courses in the School of Economic, Political and Policy Sciences (9 semester credit hours) and 6 semester credit hours of field practice.

**Required courses (9 semester credit hours)**

Choose one course from the following:

- **EPPS 6313** Introduction to Quantitative Methods
- **EPPS 7313** Descriptive and Inferential Statistics

And all of the following courses:

- **PPPE 6310** Research Design I
- **EPPS 6352** Evaluation Research Methods in the Economic, Political and Policy Sciences
- **PPPE 6V91** Evaluation Research (Field Practice) (6 semester credit hours)

With permission of the Coordinator of the certificate program, students may substitute appropriate courses from other offerings in the School of Economic, Political and Policy Sciences or prior coursework taken at other institutions.

Students interested in applying for admission to the Certificate in Program Evaluation program should consult the graduate advising office in the School of Economic, Political and Policy Sciences.

Courses for the certificate must be completed within a 3-year period with a minimum cumulative GPA of 3.0.

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**Graduate Certificate in Remote Sensing: 15 semester credit hours**

The Remote Sensing Certificate is administered jointly by the School of Economic, Political and Policy Sciences and the Department of Geosciences in the School of Natural Sciences and Mathematics. The American Society for Photogrammetry and Remote Sensing (1997) defines remote sensing as the art, science, and technology of obtaining reliable information about physical objects and the environment through the process of recording, measuring and interpreting imagery and digital representations of energy patterns derived from non-contact sensor systems. Remote sensing involves a powerful set of computerized software and hardware, and sophisticated mathematical, statistical and logical techniques for extraction and presentation of information acquired via non-contact sensors. It provides reliable and cost-effective means of studying the Earth's surface for urban planning, natural resources management and protection, and a wide variety of other fields. Government and non-government organizations continuously seek qualified professionals to use remote sensing for a wide range of applications.

**Admission Requirements**

Students seeking the Remote Sensing certificate must have completed an undergraduate degree. Students may complete and submit an application for admission online. Primary admission requirements are: (1) an application to UT Dallas, and (2) an undergraduate transcript. Applicants for the certificate program do not need a GRE (Graduate Record Examination) score or letters of reference for admission.
Students should apply as "non-degree seeking" students to the Geospatial Information Sciences program. Admission requirements for these students are similar to admission requirements for those students who would simply like to take one or more of the related courses without pursuing a certificate.

Up to 15 semester credit hours of course work taken in the certificate program can be applied later to a graduate degree, if desired.

Registration by Current UT Dallas Students
Graduate students in any degree program within UT Dallas may register for GISC courses using standard registration procedures. Students should see their program advisor regarding degree-plan credit assignment. Courses are listed under geospatial information sciences (GISC) in the UT Dallas class schedule with additional offerings under Geosciences (GEOS) and Management Information Systems (MIS).

Required Coursework (15 semester credit hours)

Two required courses:
- GISC 6325 (GEOS 5325) Remote Sensing Fundamentals
- GISC 7365 (GEOS 5326) Advanced Remote Sensing

Two elective course chosen from the following, or as approved by the Director of the certificate program:
- GISC 5322 (GEOS 5322) GPS (Global Positioning System) Satellite Surveying Techniques
- GISC 5324 (GEOS 5324) 3D Data Capture and Ground Lidar
- GISC 6301 GISC Data Analysis Fundamentals
- GISC 6317 GISC Programming Fundamentals
- GISC 6379 Special Topics in Geographic Information Sciences
- GISC 6381 (GEOS 6381) Geographic Information Systems Fundamentals
- GISC 6384 (GEOS 6384) Advanced Geographic Information Systems
- GISC 6385 (GEOS 6385) GIS Theories, Models and Issues
- GISC 6388 Advanced GIS Programming
- GISC 7310 Advanced GIS Data Analysis
- GISC 7360 GIS Pattern Analysis
- GISC 7361 Spatial Statistics
- GISC 7363 Internet Mapping and Information Processing
- GISC 7387 GIS Research Design

One required research project course:
- GISC 6387 (GEOS 6387) Geospatial Sciences Workshop

Students should take this course with varied research topics if different certificate programs are pursued.
No more than two courses can be transferred from another institution. Courses for the certificate must be completed within a 3-year period with a minimum cumulative GPA of 3.0.

1. Individuals experienced with GIS may have the introductory course (GISC 6381) waived at the discretion of the program head, but must take an additional course from the elective courses listed in this certificate program.

2. This is a two-semester long program evaluation project that culminates in a final report.
Erik Jonsson School of Engineering & Computer Science

Advances in technology are causing some of the most dramatic changes in the history of civilization. With a mandate from the State of Texas, Texas Instruments and industry, the Erik Jonsson School of Engineering & Computer Science is emerging as a national leader in the technological revolution.

The achievements of the Erik Jonsson School in its short 29-year history include:

- SAT scores of freshmen that are the highest of any public university in Texas.
- The school is the third most highly ranked public engineering school in Texas, according to US News & World Report.
- The school is the fifth highest producer of women graduates in Computer Science in the U.S. and the sixth highest producer of women graduates in Electrical Engineering, according to the American Society for Engineering Education (ASEE).
- The school is among the top five producers of computer science graduates in the U.S. and among the top ten producers of Electrical Engineering graduates, according to ASEE.
- The school is home to some of the world's top faculty in several fields.
- The school established the nation's first accredited telecommunications engineering program.

With 900 high tech companies nearby, the Jonsson School's location means that students and industry benefit from cutting edge research and development, top-notch internships and cooperative education programs, and highly qualified employees. These are just a few benefits of a strong alliance between industry and academe.

At The University of Texas at Dallas, the strong tie that binds the university to corporations was present even at UT Dallas's inception. Some 46 years ago, the founders of Texas Instruments (TI) offered their private research and development institution to the State of Texas to become part of The University of Texas System. Sixteen years later, the Texas Higher Education Coordinating Board authorized UT Dallas's Erik Jonsson School of Engineering & Computer Science to prepare students to tackle the rapidly changing world of technology and communications.

A strategic collaboration between UT Dallas, Texas Instruments, and the State of Texas is helping to ensure that the Erik Jonsson School will be recognized as one of the nation's elite engineering schools. This $300 million investment features construction of a 200,000 sq. ft. research building, the addition of 40 faculty members, recruitment of 400 full-time graduate research students, and the formation of new degree programs. Focusing strong interest in the investment, TI built a $3 billion semiconductor chip manufacturing facility near the university if the State of Texas allocated $50 million for research at UT Dallas. The investment includes a commitment from UT Dallas to raise $100 million from public and private sources.

UT Dallas and the Jonsson School have maintained close ties with TI, but as enrollment and programs have grown, so have strong relationships with other corporations such as Alcatel, Nortel, Ericsson, Nokia, Verizon, Lucent, Zyvex, Raytheon, EDS, SBC Communications, Tri-Quint Semiconductor, Cisco Systems, Lockheed
Martin, Intervoice, and many others. Industry leaders have joined with UT Dallas and the Jonsson School to conduct research, share resources, enhance educational opportunities, and develop new technologies.

The Jonsson School is organized into six departments: Bioengineering, Computer Science, Electrical Engineering, Materials Science and Engineering, Mechanical Engineering, and Systems Engineering.

The Computer Science Department was created in 1975 and became a part of the Jonsson School in 1986. Today UT Dallas boasts one of the largest computer science departments in the country, with a talented student body numbering more than 1,500, taught by an internationally recognized group of 46 tenured/tenure-track faculty and 13 experienced senior lecturers. The UT Dallas Department of Computer Science is committed to excellence in three areas: providing the highest quality instruction to undergraduate and graduate students; conducting leading edge research in computer science and engineering; and providing leadership and services to professional communities. The graduate curriculum focuses on preparing students to perform fundamental and development research. Courses and research are offered in a variety of sub-fields of computer science.

The Electrical Engineering Department was founded in 1988 and graduated its first MS student in 1989. It has grown to become the third largest Electrical Engineering program in the state, graduating 364 students in academic year 2011-2012, and out-producing such well-known schools as the University of Colorado, Iowa State, Michigan State, and the University of Oklahoma. UT Dallas' Electrical Engineering Program provides high quality education and internationally competitive research to the Dallas-Fort Worth Metroplex and Texas, focusing its efforts on areas of greatest need to North Texas industry. The department features 49 tenured/tenure-track faculty members supported by 8 senior lecturers. The program specializes in the following areas: Communications and Signal Processing, Digital Systems, Microelectronic Circuits and Systems, Optical and Photonic Devices, Materials and Systems, and Solid-State Devices and Circuits.

The Department of Materials Science and Engineering, created in 2006 and authorized to offer PhD and Master's degrees, already has fifteen tenure-system faculty members and world-class experimental facilities.

The rapidly growing Department of Mechanical Engineering, organized in 2008, offers Bachelor's and Master's degrees, and jointly with The University of Texas at Arlington, the PhD degree.

The Department of Bioengineering was organized in 2010 and is authorized to offer Bachelor's, Master's and PhD degrees in Biomedical Engineering.

The newest department in the School, Systems Engineering, offers the degree of Master of Science in Systems Engineering and Management jointly with the Naveen Jindal School of Management.

**Degrees Offered**

- Master of Science in Biomedical Engineering (33 semester credit hours minimum)
- Master of Science in Computer Engineering (33 semester credit hours minimum)
- Master of Science in Computer Science (33 semester credit hours minimum)
- Master of Science in Electrical Engineering (33 semester credit hours minimum)
- Master of Science in Materials Science and Engineering (33 semester credit hours minimum)
- Master of Science in Mechanical Engineering (33 semester credit hours minimum)
- Master of Science in Software Engineering (33 semester credit hours minimum)
• Master of Science in Systems Engineering and Management (33 semester credit hours minimum)
• Master of Science in Telecommunications Engineering (33 semester credit hours minimum)
• Doctor of Philosophy in Biomedical Engineering (75 semester credit hours beyond the baccalaureate degree)
• Doctor of Philosophy in Computer Engineering (75 semester credit hours beyond the baccalaureate degree)
• Doctor of Philosophy in Computer Science (75 semester credit hours beyond the baccalaureate degree)
• Doctor of Philosophy in Electrical Engineering (75 semester credit hours beyond the baccalaureate degree)
• Doctor of Philosophy in Materials Science and Engineering (75 semester credit hours beyond the baccalaureate degree)
• Doctor of Philosophy in Mechanical Engineering (78 semester credit hours beyond the baccalaureate degree)
• Doctor of Philosophy in Software Engineering (75 semester credit hours beyond the baccalaureate degree)
• Doctor of Philosophy in Telecommunications Engineering (75 semester credit hours beyond the baccalaureate degree)

Certificates Offered

• Certificate in Cybersecurity Systems (12 semester credit hours)
• Certificate in Information Assurance (15 semester credit hours)
• Certificate in Systems Engineering (12 semester credit hours)
• Certificate in Systems Management (12 semester credit hours)
Erik Jonsson School of Engineering & Computer Science

Department of Bioengineering

Department Faculty

Professors: Orlando Auciello, Stuart Cogan, Stephen D. Sevane, Robert D. Cennaker II, David W. Schmidtke

Associate Professors: Shalini Prasad, Mario B.”Rrtega

Assistant Professors: Leonidas Bleris, Robert D. Gregg, Heather Hayenga, Seth A. Hays, Tan Ma, Hyun-joon Nam, Danieli Rodrigues, Jun Wang, Hyuntae Yoo

Senior Lecturers: Tariq Ali, Allison Case, Steve Foland, Clark A. Meyer, Todd W. Polk

UT Dallas Affiliated Faculty: Dinesh Chalia, Jinming Gao, Michael P. Kilgard, Duncan L. MacFarlane, Raimund J. Ober, Issa M. S. Panahi, Prabhakaran, A. Dean Sherry, Emily A. Tobey, Mathukumalli Vidyasagar, Walter E. Voit, Zhenyu Xuan, Michael Qiwei Zhang

UT Southwestern Medical Center Adjunct Faculty: Matthew Petroll, Jonathan Cheng, Peter Holland, Mark Goldberg, Hunt Batjer, Jinming Gao, Jeffrey Cadeddu, Craig Malloy, Steven Patrie

Objectives

The master's (MS) and doctoral (PhD) programs in Biomedical Engineering at UT Dallas are offered as a part of a unique tri-campus program, encompassing UT Southwestern Medical Center and UT Arlington. The objective of the PhD Program in Biomedical Engineering (BMEN) is to train the next generation of leaders in the field through high-quality original research work, supplemented as appropriate by a broad range of interdisciplinary courses.

The new generation of biomedical engineers will address fundamental scientific questions, provide answers to critical problems, and develop novel applications with commercial potential. The opportunities for interdisciplinary research and coursework in several branches of engineering, coupled with the life sciences, will prepare the graduates of this program to address complex life sciences-related problems in novel ways and to create vital solutions for the future.

The objective of the MS degree program in Biomedical Engineering is to generate BMEN graduates who will be capable of undertaking challenging BMEN-related projects. The primary educational objective of the MS program is to expose students to the latest developments in biomedicine and to provide them with the appropriate tools to understand and contribute further to these developments. The MS degree program will provide the necessary education and immediately applicable skills that will enable both recent baccalaureate graduates and experienced biomedical engineers to develop new life science related technologies and applications.
Facilities

The Engineering and Computer Science Building and the new Natural Science and Engineering Research Laboratory provide extensive wet lab, fabrication, instrumentation, and high performance computing facilities to foster biomedical engineering and nano-technology research. A Class 10000 microelectronics clean room facility, including e-beam lithography, sputter deposition, PECVD, LPCVD, etch, ash and evaporation, is available for student projects and research. In addition to the facilities on campus, students in this program will also have an opportunity to work closely with researchers in the UT Southwestern Medical Center and UT Arlington.

Master of Science in Biomedical Engineering

33 semester credit hours minimum

Admission Requirements

The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

A student lacking undergraduate prerequisites for graduate courses in Biomedical Engineering (BMEN) must complete these prerequisites or receive approval from the graduate advisor and the course instructor.

The student entering the MS BMEN program should meet the following qualification guidelines:

- Undergraduate preparation equivalent to a baccalaureate in a field of engineering or the sciences
- A grade point average (GPA) in upper-division quantitative coursework of 3.33 or better on a 4.0 point scale
- GRE revised scale scores of 154, 156, and 4 for the verbal, quantitative, and analytical writing components, respectively, are advisable based on our experience with student success in the program. These verbal (V) and quantitative (Q) scores are equivalent to 520 (V) and 720 (Q) on ETS's prior GRE scale.
- See also UT Dallas requirements for English proficiency.

Applicants must submit an essay or "Statement of Purpose" outlining their background, education, and professional goals. Additionally, three letters of recommendation from individuals who are able to judge the candidate's probability of success in pursuing the program of study leading to the master's degree are required. Letters may be submitted by recommenders on official school or business letterhead in sealed envelopes or by using the electronic UT Dallas Letter of Recommendation Form available on the UT Dallas Graduate Application for Admission.

Degree Requirements

The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).
The MS BMEN requires the completion of a minimum of 33 semester credit hours. A minimum of 24 semester credit hours must consist of BMEN or BMEN cross-listed courses, 9 semester credit hours of which must come from the following BMEN core courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMEN 6351</td>
<td>Biomedical Microdevices</td>
</tr>
<tr>
<td>BMEN 6355</td>
<td>Nanotechnology and Sensors</td>
</tr>
<tr>
<td>BMEN 6373</td>
<td>Anatomy and Human Physiology for Engineers</td>
</tr>
<tr>
<td>BMEN 6374</td>
<td>Genes, Proteins and Cell Biology for Engineers</td>
</tr>
<tr>
<td>BMEN 6375</td>
<td>Techniques in Cell and Molecular Biology</td>
</tr>
<tr>
<td>BMEN 6386</td>
<td>Biological Processes: Modeling and Simulation</td>
</tr>
<tr>
<td>BMEN 6387</td>
<td>Applied Bioinformatics</td>
</tr>
</tbody>
</table>

The requirement for the remaining 9 semester credit hours beyond the 24 semester credit hours of BMEN or BMEN cross-listed courses can be satisfied by completing recommended electives. These credits can be selected from 6000-level courses offered by the Erik Jonsson School of Engineering and Computer Science, the Department of Biological Sciences in the School of Natural Sciences and Mathematics, or appropriate courses taught at UT Southwestern or UT Arlington.

The MS BMEN program offers both thesis and non-thesis options. All MS BMEN students will be assigned initially to the non-thesis option. Those students who elect the thesis option may do so by obtaining the approval of a faculty thesis supervisor. Research and thesis semester credit hours cannot be counted in an MS BMEN degree plan unless a thesis is written and successfully defended.

- In order to satisfy degree requirements, students must achieve an overall GPA of 3.00 or better.
- Students must obtain a GPA of 3.33 or better in all MS BMEN or BMEN cross-listed courses.
- To be considered for admission to the PhD program, one must obtain an overall graduate GPA of 3.33.

All full-time, supported students are required to participate in the thesis option. These students must have an academic advisor and an approved degree plan.

**Doctor of Philosophy in Biomedical Engineering**

75 semester credit hours minimum beyond the baccalaureate degree

**Admission Requirements**

The university's general admission requirements are discussed on the [Graduate Admission page](catalog.utdallas.edu/2015/graduate/admission).

The PhD in Biomedical Engineering (BMEN) is awarded primarily to acknowledge the student's success in an original research project, the description of which is a significant contribution to the literature of the discipline. Applicants for the doctoral program are therefore selected by the Biomedical Engineering Program Graduate Committee on the basis of research aptitude, as well as academic record. Applications for the doctoral program are considered on an individual basis.

The following are guidelines for admission to the PhD program in Biomedical Engineering:
A master's degree in engineering or one of the natural sciences.

- A grade point average in graduate coursework of 3.33 or better on a 4.0 point scale.

- Students admitted to the program without a master's degree are required to take a minimum of 33 semester credit hours of organized coursework. A minimum of 24 semester credit hours must consist of BMEN or BMEN cross-listed courses.

- An overall grade point average of 3.33 or better on a 4.0 point scale for students entering without a master's degree.

- GRE revised scale scores of 154, 156, and 4 for the verbal, quantitative, and analytical writing components, respectively, are advisable based on our experience with student success in the program. These verbal (V) and quantitative (Q) scores are equivalent to 520 (V) and 720 (Q) on ETS's prior GRE scale.

See also UT Dallas requirements for English proficiency.

Applicants must submit an essay or Statement of Purpose describing motivation for doctoral study and how it relates to their professional goals, area of research interest, and potential supervising professor. Students are encouraged to directly contact faculty about research opportunities and their willingness to serve as their supervising professor.

Three letters of recommendation from individuals who are familiar with the student's record and are able to competently judge the candidate's probability of success in pursuing doctoral study in biomedical engineering are required. Letters may be submitted by recommenders on official school or business letterhead in sealed envelopes or by using the electronic UT Dallas Letter of Recommendation Form available on the UT Dallas Graduate Application for Admission.

For students who are interested in a PhD but are unable to attend school full-time, there is a part-time option. The guidelines for admission to the program and the degree requirements are the same as for full-time PhD students.

All students must have a supervising professor and an approved plan of study.

**Degree Requirements**

The university's general degree requirements are discussed on the [Graduate Policies and Procedures page](catalog.utdallas.edu/2015/graduate/policies/policy).

Each program for doctoral study is individually tailored to the student's background and research objectives by the student's dissertation committee.

The PhD degree requires a minimum of 75 semester credit hours beyond the baccalaureate degree.

1. All students entering the PhD program with a master's degree must complete a minimum of 9 semester credit hours of BMEN or BMEN cross-listed graduate-level course work with a 3.33 GPA or higher. The courses will be selected in consultation with the supervising professor.

2. Students admitted to the program without a master's degree are required to complete a minimum of 33 semester credit hours of organized coursework. A minimum of 24 semester credit hours must consist of BMEN or BMEN cross-listed courses with a 3.33 GPA or higher. The courses will be selected in consultation with the supervising professor.

3. Students are required to have a supervising professor upon entry to the PhD program and develop
an approved plan of study during the first long semester.

4. It is expected that candidates will form a dissertation committee following successful completion of the qualifying exam. The candidates should schedule a meeting with their dissertation committee once per long semester until they graduate from the program.

5. The dissertation committee or supervising professor can require additional courses.

Also required are:

- A qualifying examination (QE), consisting of a written exam and an oral defense demonstrating competence in the PhD candidate’s research area. Admission to PhD candidacy is based on two criteria: graded performance in the QE and GPA in graduate-level organized courses. All students entering the PhD program must pass the QE within 2 long semesters. A student has at most two attempts to pass the QE which is given once during each fall and spring semesters.

- After successful completion of the qualifying exam, the student is required to officially form the Dissertation Committee. The Dissertation Committee must be formally approved by the department head and the Office of the Dean of Graduate Studies.

- After the student’s Dissertation Committee is formally approved, the student submits a written dissertation proposal to the Dissertation Committee. After the proposal is approved by the Dissertation Committee, the student will defend the dissertation proposal. A student has at most two attempts to successfully complete the dissertation proposal defense.

- Completion of a major research project culminating in a dissertation, demonstrating an original contribution to scientific knowledge and engineering practice. The dissertation will be defended publicly. The rules for this defense are specified by the Office of Graduate Studies. Neither a foreign language nor a minor is required for the PhD. However, the student’s Dissertation Committee may impose these or other requirements that it feels are necessary and appropriate to the student’s degree program.
Erik Jonsson School of Engineering & Computer Science

Graduate Program in Computer Engineering

Program Faculty


Professor Emeritus: William Pervin

Associate Professors: Jorge A. Cobb, Roozbeh Taheri, Peeraj Mittal, Issa M. S. Panahi

Assistant Professors: Joseph Callenes-Sloan, Myoungsoo Jhung, Jun Wang

Senior Lecturers: Nathan Dodge, Greg Ozbirn

UT Dallas Affiliated Faculty: Cong Liu

Objectives

The master's (MS) and doctoral (PhD) degrees in Computer Engineering (CE) emerged as a bridge between the increasingly overlapping disciplines of Computer Science and Electrical Engineering. The MS CE degree program provides intensive preparation for engineers who seek knowledge and skills necessary for the design of complex systems comprised of both hardware and software components. It has a heavy emphasis on the design of high speed and complex hardware and highly reliable and time critical software systems.

Computer Engineering at UT Dallas is a broadly based engineering discipline dealing with the sensing, processing, and transmission of information by making extensive use of electrical engineering and computer science principles. The CE program at UT Dallas also encourages students and faculty to develop synergies with disciplines outside of engineering, such as medicine and the life sciences. CE faculty members are actively involved in advanced research and teaching in all major areas of computer engineering. The Erik Jonsson School is home to several research centers, and promotes graduate and undergraduate curriculum innovation. It is the driving force behind computer engineering's rapid success and growth. The Erik Jonsson School has a large infrastructure of computing and other laboratory resources. The MS CE degree program provides intensive preparation for engineers who seek knowledge and skills necessary for the design of complex systems comprised of both hardware and software components. It has a heavy emphasis on the design of high speed and complex hardware and highly reliable and time critical software systems. It is designed to serve the needs of engineers who wish to continue their education. Courses are offered at a
time and location convenient for the student who is employed on a full-time basis.

Facilities

The Erik Jonsson School of Engineering and Computer Science has developed a state-of-the-art computational facility consisting of a network of Sun servers and Sun Engineering Workstations. All systems are connected via an extensive fiber-optic Ethernet, and through the Texas Higher Education Network, have direct access to most major national and international networks. In addition, many personal computers are available for student use.

The Engineering and Computer Science Building provides extensive facilities for research in electrical engineering, telecommunications, and computer science and engineering.

The Center for Systems, Communications, and Signal Processing, with the purpose of promoting research and education in general communications, signal processing, control systems, medical and biological systems, circuits and systems and related software, is located in the Erik Jonsson School.

In the Digital Signal Processing Laboratory several multi-CPU workstations are available in a network configuration for simulation experiments. Hardware development facilities for real time experimental systems are available and include microphone arrays, active noise controllers, speech compressors, and echo cancellers. The Distributed Computing Laboratory has a network of personal computers running Linux to support network simulation using discrete-event simulation packages. The Hardware/Software Co-design Laboratory has many workstations and PCs with DSP modules to support the experiments for various implementations in DSP and communications.

In addition to the facilities on campus, cooperative arrangements have been established with many local industries to make their facilities available to UT Dallas graduate engineering students.

Master of Science in Computer Engineering

33 semester credit hours minimum

Admission Requirements

The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

A student lacking undergraduate prerequisites for graduate courses in electrical engineering and computer science must complete these prerequisites or receive approval from the graduate advisor and the course instructor. A diagnostic exam may be required. Specific admission requirements follow.

The student entering the MS CE program should meet the following guidelines:

- An undergraduate preparation equivalent to a baccalaureate in computer science or electrical engineering from an accredited engineering program.
- A grade point average (GPA) in upper-division quantitative coursework of 3.0 or better on a 4.0 point scale.
- GRE revised scores of 154, 156, and 4 for the verbal, quantitative, and analytical writing components, respectively, are advisable based on our experience with student success in the program.
Applicants must submit three letters of recommendation from individuals able to judge the candidate's probability of success in pursuing master's study. Applicants must also submit an essay outlining the candidate's background, education, and professional goals.

Students from other engineering disciplines or from other science and math areas may be considered for admission to the program on a case-by-case basis; however, some additional coursework may be necessary before starting the master's program.

Degree Requirements

The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

The MS CE requires a minimum of 33 semester credit hours.

All students must have an academic advisor and an approved degree plan. Courses taken without advisor approval will not count toward the 33 semester credit hour requirement. Successful completion of the approved course of studies leads to the MS CE degree.

The MS CE program has both a thesis and a non-thesis option. All part-time MS CE students will be assigned initially to the non-thesis option. Those wishing to elect the thesis option may do so by obtaining the approval of a faculty thesis supervisor.

All full-time, supported students are required to participate in the thesis option. The thesis option requires six semester credit hours of research, a written thesis submitted to the graduate school, and a formal public defense of the thesis. The supervising committee administers this defense and is chosen in consultation with the student's thesis advisor prior to enrolling for thesis credit. Each student must take at least 2 courses selected from Group 1 and at least 2 courses selected from Group 2:

**Group 1 (at least 2 courses)**

- CE 6302 Microprocessor Systems
- CE 6304 Computer Architecture
- CE 6325 VLSI Design

**Group 2 (at least 2 courses)**

- CE 6363 Design and Analysis of Computer Algorithms
- CE 6378 Advanced Operating Systems
- CE 6390 Advanced Computer Networks

Approved electives must be taken to make a total of 33 semester credit hours. These courses must be at 6000 level or higher from computer engineering, electrical engineering, computer science, and telecommunications engineering curricula with the approval of the advisor. It is highly recommended that two of these electives be chosen from the following list:

- CE 6303 Testing and Testable Design
- CE 6305 Computer Arithmetic
- CE 6308 Real-Time Systems
Doctor of Philosophy in Computer Engineering

75 semester credit hours minimum beyond the baccalaureate degree

Objectives

The PhD in Computer Engineering is awarded primarily to acknowledge the student's success in an original research project, the description of which is a significant contribution to the literature of the discipline. Applicants for the doctoral program are therefore selected by the Computer Engineering Program Graduate Committee on the basis of research aptitude, as well as academic record. Applications for the doctoral program are considered on an individual basis.

Admission Requirements

The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

The admission requirements will be basically the same as the existing ones for admission to the PhD programs in Electrical Engineering and Computer Science. The entrance requirements are:

- A master's degree in Computer Engineering or a closely associated discipline such as Electrical Engineering or Computer Science. Consideration will be given to highly qualified students wishing to pursue the doctorate without satisfying all of the requirements for a master's degree.
- GPA (grade point average) in graduate level coursework of 3.5 or higher on a 4.0 point scale.
- GRE revised scores of 154, 156, and 4 for the verbal, quantitative, and analytical writing components, respectively, are advisable based on our experience with student success in the program.

Applicants must submit three letters of recommendation from individuals able to judge the candidate's probability of success in pursuing doctoral study. Applicants must also submit an essay outlining the candidate's background, education, and professional goals.

Applicants must also submit a narrative describing their motivation for doctoral study and how it relates to their professional goals.

For students who are interested in a PhD but are unable to attend school full-time, there is a part-time...
option. The guidelines for admission to the program and the degree requirements are the same as for full-time PhD students. All students must have an academic advisor and an approved plan of study.

**Degree Requirements**

The university's general degree requirements are discussed on the [Graduate Policies and Procedures page](catalog.utdallas.edu/2015/graduate/policies/policy). The program will require a minimum of 75 semester credit hours beyond the baccalaureate degree. These credits must include at least 30 semester credit hours of graduate level courses beyond the baccalaureate level in the major concentration. The core requirements for the PhD degree in Computer Engineering are the same as the ones for the MS in Computer Engineering. All PhD students must demonstrate competence in the master's level core courses in their research area. However, a student's supervising committee may impose course requirements that are necessary and appropriate for the student's research program. It is expected that MS degree students planning to enter the proposed doctoral program will take most of the courses as part of their MS degree requirements. All students must have an academic advisor and an approved plan of study.

Also required are:

- A qualifying examination (QE), as approved by the CE graduate committee, demonstrating competence in the PhD candidate's research area. A student entering the PhD program with a MS CE must pass this exam within 3 long semesters, and a student entering without an MS CE must pass this exam within 4 long semesters. A student has at most two attempts at this qualifying exam. The exam will be given during the fall and spring semesters.

- A comprehensive exam consisting of: a written dissertation proposal, a public seminar, and a private oral examination conducted by the PhD candidate's supervising committee.

- Completion of a major research project culminating in a dissertation demonstrating an original contribution to scientific knowledge and engineering practice. The dissertation will be defended publicly. The rules for this defense are specified by the Office of the Dean of Graduate Studies. Either a foreign language nor a minor is required for the PhD. However, the student's supervisory committee may impose these or other requirements that it feels are necessary and appropriate to the student's degree program.

**Dissertation**

A dissertation is required and must be approved by the graduate program. A student must arrange for a dissertation advisor willing to guide this dissertation. The student must have a dissertation supervising committee that consists of no less than four members. The dissertation may be in computer engineering exclusively or it may involve considerable work in an area of application.
Erik Jonsson School of Engineering & Computer Science

Graduate Program in Computer Science

Program Faculty


Professor Emeritus: Klaus Truemper, William J. Pervin

Associate Professors: Sergey Bereg, Lawrence Chung, Jorge A. Cobb, Kendra M. L. Cooper, Xiaohu Guo, Kevin Hamlen, Murat Kantarcioğlu, Yang Liu, Andrian Marcus, Neeraj Mittal, Yu-Chung (Vincent) Ng, Kamil Sarac, Haim Schweitzer, Rym Zalila-Wenkstern

Assistant Professors: Alvaro Cárdenas, Vibhav Gogate, Zhiqiang Lin, Cong Liu, Ryan McMahan, Nicholas Ruozzi, Lingming Zhang

Research Professors: Ron Bose

Senior Lecturers: Mehra Borazjany, Ebru Cankaya, Michael Christiansen, John Cole, Chris I. Davis, Timothy (Tim) Farage, Neeraj Gupta, Shyam Karrah, Pushpa Kumar, Khiem Le, Richard Min, Linda Morales, Nhut Nguyen, Greg Ozbir, Mark Paulik, Miguel Razo-Razo, William (Bill) Semper, Charles Shields Jr., Jason W. Smith, Janell Straach, Jeyakesavan (Jey) Veerasamy, Don G. Vogel, Nurcan Yuruk

Affiliated Faculty: Milind Dawande

Objectives

The Graduate Program in Computer Science provides intensive preparation in the design, programming, theory, and applications of computers. The Department of Computer Science offers courses of study leading to the MS in Computer Science, the MS in Software Engineering, the PhD degree in Computer Science, and the PhD degree in Software Engineering. Training is provided for both academically oriented students and students with professional goals in the many business, industrial, or governmental occupations requiring advanced knowledge of computer theory and technology. Courses and research are offered in a variety of subfields of computer science, including operating systems, computer architecture, computer graphics, pattern recognition, automata theory, combinatorics, artificial intelligence, data and network security, natural language processing, database design, computer networks, programming languages, software systems, analysis of algorithms, computational complexity, software engineering, software testing, software reliability, scheduling, visualization, fault-tolerant computing, parallel processing, telecommunications networks, telecommunications software, performance of systems, VLSI, computational geometry, and design.
A comprehensive program of evening courses is offered which enables part-time students to earn the master's degree or to select individual courses of interest.

Facilities

The Department of Computer Science systems are comprised of a private virtualization cloud, several individual computer servers, computer workstations, and desktop computers. Research laboratories are available for parallel processing, distributed systems, software engineering, high-performance computing, graphics, programming languages and systems, telecommunications, CAD and graph visualization, image understanding and processing, artificial intelligence, big data, natural language processing, speech processing, and web technologies. The Department of Computer Science network connects through Internet 2 with other research universities, gigabit ethernet intranet, and pervasive wireless connectivity.

Master of Science in Computer Science

33 semester credit hours minimum

Admission Requirements

The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

The student entering the Computer Science MS program should have an undergraduate preparation equivalent to a baccalaureate in a quantitative science, including calculus and linear algebra. However, special arrangements (requiring more than the minimal number of semester credit hours) can be made for students with good undergraduate preparation in other fields. Minimum requirements are:

- Bachelor's degree which includes 2 semesters of calculus and 1 semester of linear algebra.
- A GPA (grade point average) of at least 3.0 (last 60 semester credit hours). GPA in quantitative courses of at least 3.3.
- GRE revised scores of 311, 154, 157, 308, 153, 155, and 4 for the combined, verbal, quantitative, and analytical writing components, respectively, are advisable based on our experience with student success in the program.

Applicants are admitted on a competitive basis.

Students lacking undergraduate preparation in computer science must complete the courses listed below. At the discretion of the graduate advisor, a diagnostic exam may be required. The required prerequisite courses common to all master's students are:

Required Prerequisite Courses

- CS 5303 Computer Science I
For the Data Sciences Track:

- CS 3341 (SE 3341) Probability and Statistics in Computer Science and Software Engineering

For the Information Assurance Track:

- CS 5390 Computer Networks

For the MS in Software Engineering:

- CS 3354 (SE 3354) Software Engineering or CS 5354 (SE 5354) Software Engineering

For the Networks and Telecommunications Track:

- CS 3341 (SE 3341) Probability and Statistics in Computer Science and Software Engineering
- CS 5390 Computer Networks

For the Traditional Computer Science:

- CS 5349 Automata Theory
- CS 5390 Computer Networks

**Degree Requirements**

The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy). The student may choose a thesis plan or a non-thesis plan. The thesis plan requires a minimum of 27 semester credit hours of courses, plus completion of an approved thesis (six thesis semester credit hours). This thesis is directed by a supervising professor and must be approved by the head of the Department of Computer Science. The non-thesis plan also requires a minimum of 33 semester credit hours of courses.

By a judicious planning of courses chosen from the computer science curriculum, supervised and approved by the graduate advisor, students may pursue the MS degree in Computer Science while emphasizing specific areas of the discipline. Students may also choose to receive the MS degree in Software Engineering. Because of the rapidly changing nature of the computer science discipline, the specific courses required may change by the time of the student's admission. A listing of the required courses will be specified by the student's advisor. Specific degree requirements follow.
Core Requirements (15 semester credit hours)

Students are required to complete one course from the following:

Data Sciences Track
- CS 6313 Statistical Methods for Data Sciences
- CS 6350 Big Data Management and Analytics
- CS 6363 Design and Analysis of Computer Algorithms
- CS 6375 Machine Learning

Choose one course from the following five courses:
- CS 6301 Special Topics in Computer Science [when topic is Social Network Analytics]
- CS 6320 Natural Language Processing
- CS 6327 Video Analytics
- CS 6347 Statistical Methods in AI and Machine Learning
- CS 6360 Database Design

Information Assurance Track
- CS 6324 Information Security
- CS 6363 Design and Analysis of Computer Algorithms
- CS 6378 Advanced Operating Systems

Choose two courses from the following four courses:
- CS 6332 System Security and Malicious Code Analysis
- CS 6348 Data and Application Security
- CS 6349 Network Security
- CS 6377 Introduction to Cryptography

Intelligent Systems Track
- CS 6320 Natural Language Processing
- CS 6363 Design and Analysis of Computer Algorithms
- CS 6364 Artificial Intelligence
- CS 6375 Machine Learning

Choose one course from the following two courses:
- CS 6360 Database Design
- CS 6378 Advanced Operating Systems

Interactive Computing Track
Choose three of the following five courses:

- CS 6323 Computer Animation and Gaming
- CS 6328 Modeling and Simulation
- CS 6331 Multimedia Systems
- CS 6334 Virtual Reality
- CS 6366 Computer Graphics

Networks and Telecommunications Track

- CS 6352 Performance of Computer Systems and Networks
- CS 6363 Design and Analysis of Computer Algorithms
- CS 6378 Advanced Operating Systems
- CS 6385 Algorithmic Aspects of Telecommunication Networks
- CS 6390 Advanced Computer Networks

Systems Track

- CS 6304 Computer Architecture
- CS 6363 Design and Analysis of Computer Algorithms
- CS 6378 Advanced Operating Systems
- CS 6396 Real-Time Systems

Choose one course from the following four courses:

- CS 6349 Network Security
- CS 6380 Distributed Computing
- CS 6397 Synthesis and Optimization of High-Performance Systems
- CS 6399 Parallel Architectures and Systems

Traditional Computer Science Track

- CS 6363 Design and Analysis of Computer Algorithms
- CS 6378 Advanced Operating Systems
- CS 6390 Advanced Computer Networks

Choose two courses of the following three courses:

- CS 6353 Compiler Construction
- CS 6360 Database Design
- CS 6371 Advanced Programming Languages
Master of Science in Software Engineering

33 semester credit hours minimum

Core Requirements

Course Requirements

Track Required Courses

- CS 6329 (SE 6329) Object-Oriented Software Engineering
- CS 6361 (SE 6361) Advanced Requirements Engineering
- CS 6362 (SE 6362) Advanced Software Architecture and Design
- CS 6367 (SE 6367) Software Testing, Validation and Verification
- CS 6387 (SE 6387) Advanced Software Engineering Project

Credit will be given for only one of the following courses if students take them together to satisfy Computer Science and Software Engineering degree plan requirements:

- CS 6329 Object-Oriented Software Engineering, and
- CS 6359 Object-Oriented Analysis and Design

Students must satisfy the core requirements by either earning a 3.19 minimum grade point average OR by earning a 3.0 minimum grade point average in the five core courses and taking an extra approved elective (beyond the minimum degree requirements of 33 semester credit hours) and maintain the required GPA.

Electives (minimum of 18 semester credit hours)

Five (15 semester credit hours) 6000/7000/8000 level elective CS courses, or six semester credit hours of thesis or project courses plus three elective courses (6 + 9 = 15 semester credit hours), with approval of a graduate advisor; a minimum grade point average of 3.0 is required. Courses that are prerequisites to the student's core requirements are especially recommended. Approved electives must be taken to make a minimum of 33 semester credit hours.

Note: For the information assurance track, students must also take six elective courses (two approved information assurance electives), and all electives must be 6000 level or above. A course cannot be used to satisfy both core and elective requirements.

While the Department of Computer Science offers both the Master of Science in Computer Science and the Master of Science in Software Engineering degrees, students are not permitted to pursue both degrees.

Doctor of Philosophy in Computer Science
75 semester credit hours minimum beyond the baccalaureate degree

The Department of Computer Science offers a Doctor of Philosophy in Computer Science. The doctoral program is tailored to the student. The student must arrange a course program with the guidance and approval of a faculty member chosen as his/her graduate advisor. Adjustments can be made as the student's interests develop and a specific dissertation topic is chosen.

Admission Requirements

The university's general admission requirements are discussed on the [Graduate Admission page](catalog.utdallas.edu/2015/graduate/admission).

A student may be admitted under one of two possible options. The student must have:

**Admission Option One**

- A master's degree in computer science or its equivalent, and
- A GPA (grade point average) of at least 3.5, and
- GRE revised scores of at least 308, 153, 155, and 4 for the combined, verbal, quantitative, and analytical writing components, respectively, are advisable based on our experience with student success in the program.

**Admission Option Two**

- A BS in related area that includes two semesters of calculus and linear algebra with
- GPA of at least 3.5 in the last 60 semester credit hours, and
- GRE revised scores of at least 319, 158, 161, 908, 153, 155, and 4 for the combined, verbal, quantitative, and analytical writing components, respectively, are advisable based on our experience with student success in the program.

Degree Requirements

The university's general degree requirements are discussed on the [Graduate Policies and Procedures page](catalog.utdallas.edu/2015/graduate/policies/policy).

Core requirements:

The core requirements for the PhD degree in Computer Science are the same as the ones listed on the [Master of Science in Computer Science page](catalog.utdallas.edu/2015/master/computer) or on the [Master of Science in Software Engineering page](catalog.utdallas.edu/2015/master/software).

Also required are:

- Pass a qualifying examination.
- Pass [CS 6382](catalog.utdallas.edu/2015/master/computer) Theory of Computation with a grade of B or better
- Two CS or SE 7000 and above level courses
Sufficient CS electives for a total of at least 75 semester credit hours beyond the baccalaureate degree. At least 9 semester credit hours of organized advanced Computer Science electives must be taken at UT Dallas. The student is encouraged to consult with an advisor in choosing electives.

**Dissertation**

A dissertation is required and must be approved by the graduate program. A student must arrange for a dissertation advisor willing to guide this dissertation. The student must have a dissertation supervising committee that consists of no less than four members of whom at least three must be from the Computer Science faculty. Students must enroll in a minimum 3 dissertation semester credit hours in the degree plan. The dissertation may be in computer science exclusively or it may involve considerable work in an area of application.

**Doctor of Philosophy in Software Engineering**

*75 semester credit hours minimum beyond the baccalaureate degree*

The Department of Computer Science offers a Doctor of Philosophy in Software Engineering. The doctoral program is tailored to the student. The student must arrange a course program with the guidance and approval of a faculty member chosen as his/her graduate advisor. Adjustments can be made as the student's interests develop and a specific dissertation topic is chosen.

**Admission Requirements**

The university's general admission requirements are discussed on the [Graduate Admission page](catalog.utdallas.edu/2015/graduate/admission). A student may be admitted under one of two possible options:

** Admission Option One

- A master's degree in computer science or its equivalent, and
- A GPA (grade point average) of at least 3.5 and
- GRE revised scores of at least 308, 153, 155, and 4 for the combined, verbal, quantitative, and analytical writing components, respectively, are advisable based on our experience with student success in the program.

** Admission Option Two

- A BS in related area that includes two semesters of calculus and linear algebra with,
- GPA of at least 3.5 in the last 60 semester credit hours, and
- GRE revised scores of at least 315, 156, 159, and 4 for the combined, verbal, quantitative, and analytical writing components, respectively, are advisable based on our experience with student success in the program.
Degree Requirements

The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

Core requirements:

The core requirements for the PhD degree in Software Engineering are the same as those listed on the Master of Science in Software Engineering page.

Also required are:

- Pass a qualifying examination.
- **CS 6382** Theory of Computation with a grade of B or better
- Two CS or SE 7000 and above level courses

Sufficient CS electives for a total of at least 75 semester credit hours beyond the baccalaureate degree. At least 9 semester credit hours of organized advanced Computer Science electives must be taken at UT Dallas. The student is encouraged to consult with an advisor in choosing electives.

Dissertation

A dissertation is required and must be approved by the graduate program. A student must arrange for a dissertation advisor willing to guide this dissertation. The student must have a dissertation supervising committee that consists of no less than four members of whom at least three must be from the Computer Science faculty. Students must enroll in a minimum 3 dissertation semester credit hours in the degree plan. The dissertation may be in computer science exclusively or it may involve considerable work in an area of application.

Graduate Certificate in Information Assurance: 15 semester credit hours

The Department of Computer Science offers a graduate certificate in information assurance.

**Admission Requirements**

Students must gain admission to the MS CS program or be eligible to take graduate courses in CS as a non-degree seeking student.

**Certificate Requirements**

Students must complete the following five courses with a GPA of 3.2 or better.

- **CS 6324** Information Security
- **CS 6348** Data and Applications Security
- **CS 6349** Network Security
- **CS 6363** Design and Analysis of Computer Algorithms
Department of Electrical Engineering

Department Faculty


Professors Emeritus: Louis R. Hunt, William J. Pervin, Don Shaw

Research Professors: Walter Duncan, Andrew Marshall, Hisashi (Sam) Shichijo

Associate Professors: Gerald O. Burnham, Yun Chiu, Rashauda Henderson, Wenchuang (Walter) Hu, Roozbeh Jafari, Hoi Lee, Dongsheng Brian Ma, Issa M. S. Panahi, Siavash Pourkamali

Assistant Professors: Bilal Akin, Taylor Barton, Carlos A. Busso-Recabarren, Joseph Callenes-Sloan, Nicholas Gans, Myoungsoo Jung, Chadwin D. Young

Research Assistant Professors: Hynek Boril, Abhijeet Sangwan

Senior Lecturers: Charles (Pete) Bernardin, Peter A. Blakey, Paul Deignan, Nathan B. Dodge, James Florence, Jung Lee, Randall E. Lehmann, P. K. Rajasekaran, Ricardo E. Saad, William (Bill) Swartz, Marco Tacca

UT Dallas Affiliated Faculty: Larry P. Ammann, Leonidas Bleris, Yves J. Chabal, Bruce E. Gnade, Matthew J. Goekner, Robert D. Gregg, Jiyoung Kim, Moon J. Kim, David J. Lary, Yang Liu, Robert L. Rennaker II, Mario A. Rotea, Mathukumalli Vidyasagar, Robert M. Wallace, Steve Yurkovich

Objectives

The program leading to the MSEE degree provides intensive preparation for professional practice in a broad spectrum of high-technology areas of electrical engineering. It is designed to serve the needs of engineers who wish to continue their education. Courses are offered at a time and location convenient for the student who is employed on a full-time basis.

The objective of the doctoral program in electrical engineering is to prepare individuals to perform original, leading edge research in the broad areas of communications and signal processing; mixed-signal IC design; digital systems; power electronics; microelectronics and nanoelectronics, optics and photonics; optical communication devices and systems; power electronics and energy systems, and wireless communications. Because of our strong collaborative programs with Dallas-area high-technology companies, special
emphasis is placed on preparation for research and development positions in these high-technology industries.

Facilities

The Erik Jonsson School of Engineering and Computer Science has developed a state-of-the-art information infrastructure consisting of a wireless network in all buildings and an extensive fiber-optic and copper Ethernet. Through the Texas Higher Education Network, students and faculty have direct access to most major national and international networks. UT Dallas has an Internet 2 connection. In addition, many personal computers and UNIX workstations are available for student use.

The Engineering and Computer Science Building and the new Natural Science and Engineering Research Laboratory provide extensive facilities for research in microelectronics, telecommunications, and computer science. A Class 10000 microelectronics clean room facility, including e-beam lithography, sputter deposition, PECVD, LPCVD, etch, ash and evaporation, is available for student projects and research. The Plasma Applications and Science Laboratories have state-of-the-art facilities for mass spectrometry, microwave interferometry, optical spectroscopy, optical detection, in situ ellipsometry and FTIR spectroscopy. In addition, a modified Gaseous Electronics Conference Reference Reactor has been installed for plasma processing and particulate generation studies. Research in characterization and fabrication of nanoscale materials and devices is performed in the Nanoelectronics Laboratory. The Optical Communications Laboratory includes attenuators, optical power meters, lasers, APD/p-i-n photodetectors, optical tables, and couplers and is available to support system level research in optical communications. Tissue optics research is also supported in this laboratory. The Photonic Testbed Laboratory supports research in photonics and optical communications with current-generation optical networking test equipment. The Electronic Materials Processing Laboratory has extensive facilities for fabricating and characterizing semiconductor and optical devices. The Photonic Devices and Systems Laboratory houses graduate research projects centered on optical instrumentation and photonic integrated circuits.

The Renewable Energy and Vehicular Technology Laboratory (REVT-Lab) is equipped with various sources of renewable energy such as wind and solar, a micro-grid formed by a network of multi-port power electronic converters, a stationary plug in hybrid vehicle testbed, a stationary DFIG-based wind energy emulator, a series of adjustable speed motor drive technologies including PMSM, SRM and induction motor drives. All of the testbeds are equipped with digital control, state-of-the-art measurement and protection devices. REVT laboratory is also equipped with a cold plasma chamber for hydrogen harvesting and battery testing facilities. The main focus of the REVT Lab is to improve reliability and security of the power electronic-driven technologies as applied to utility and vehicular industries.

The power electronics and drives laboratory (PEDL) is focused on advanced power electronics, electric drives systems, and energy management technologies for efficiency improvements in industrial, transportation, and renewable energy applications. The facilities include a real-time simulation lab and a hardware experimental lab. The simulation lab is an innovative digital signal processor based power electronics and motor drives hands-on teaching platform, tailored for graduate and undergraduate students as well as for practicing engineers. This new platform enables students to rapidly and efficiently learn to program DSP and configure the peripherals for real-time applications and control/manage the power digitally. The hardware experimental lab is equipped with state-of-the-art power testing equipment, dynamometers, prototype PWB manufacturing equipment, an environmental test chamber, and a mechanical shop. The lab is equipped with state-of-the-art tools and instrumentation necessary for development of power electronic circuits and systems for high power applications.

The Texas Analog Center of Excellence (TxACE) at The University of Texas at Dallas (UT Dallas) has the
mission of leading the country in analog research and education. TxACE research seeks to create
fundamental analog, mixed signal and RF design innovations in integrated circuits and systems that improve
energy efficiency, healthcare, and public safety and security. The center is supported by Semiconductor
Research Corporation, Texas Emerging Technology Fund, Texas Instruments Inc., the UT System, and UT
Dallas. TxACE is the largest analog technology center in the world on the basis of funding and the number
of principal investigators. The center funds ~70 directed research projects led by ~65 principal and co-
principal investigators from 31 academic institutions including three international institutions.

The Multimedia Communications Laboratory has a dedicated network of PC's, Linux stations, and multi-
processor, high performance workstations for analysis, design and simulation of image and video processing
systems. The Signal and Image Processing (SIP) Laboratory is equipped with DSP, FPGA, GPU, and
smartphone implementation hardware platforms where experimentations are conducted related to the
following two major research thrusts: (i) development and real-time execution of camera image pipeline
solutions, and (ii) biomedical signal and image processing. The Statistical Signal Processing Laboratory is
dedicated to research in statistical and acoustic signal processing for biomedical and non-biomedical
applications. It is equipped with high-performance computers and powerful textual and graphical software
platforms to analyze advanced signal processing methods, develop new algorithms, and perform system
designs and simulations. The Acoustic Research Laboratory provides number of test-beds and associated
equipment for signal measurements, system modeling, real-time implementation and testing of algorithms
related to audio/ acoustic/speech signal processing applications such as active noise control, speech
enhancement, dereverberation, echo cancellation, sensor arrays, psychoacoustic signal processing, etc.

The Center for Robust Speech Systems (CRSS) is focused on a wide range of research in the area of
speech signal processing, speech and speaker recognition, speech/language technology, and multi-modal
signal processing involving facial/speech modalities. CRSS is affiliated with HLTRI in the Erik Jonsson
School, and collaborates extensively with faculty and programs across UT Dallas on speech and language
research. CRSS supports an extensive network of workstations, as well as a High-Performance Compute
Cluster with over 30TB of disk space and 420 CPU ROCS multi-processor cluster. The center also is
equipped with several Texas Instruments processors for real-time processing of speech signals, and two
ASHA certified sound booths for perceptual/listening based studies and for speech data collection. CRSS
supports mobile speech interactive systems through the UT Drive program for in-vehicle driver-behavior
systems, and multi-modal based interaction systems via image-video-speech research.

The Sensing, Robotics, Vision, Control and Estimation (SeRViCE) Lab focuses on topics of control and
estimation with applications in robotics, autonomous vehicles and sensor management. Primary expertise is
in vision-based control and estimation and nonlinear control, that is, using cameras as the primary sensor to
control robots or other complex systems. Robotics resources in the lab currently include two Pioneer 3-DX
mobile robots from Mobile Robots Inc. and a Stubli TX90 robot manipulator, with six degrees of freedom,
7kg nominal payload and capable of torque level control. Camera resources include multiple web cameras,
three high-quality, firewire, color, digital video cameras, and an 18Mp digital SLR camera. The SeRViCE
Lab also features general support equipment, including desktop and mobile work stations DLP projectors,
power tools, hand tools, oscilloscopes, and other electronic measurement equipment.

The Laboratory for Autonomous Robotics and Systems (LARS) focuses on the development of novel control
theory to support autonomous and teleoperation of general robotic systems. Active research projects
include: (a) human-in-the-loop multi-robot telemanipulation, (b) autonomous networked robotics, and (c)
control of bipedal walking robots. The LARS is equipped with high speed high resolution 8-camera Vicon
motion capture system for general purpose motion tracking. The LARS possesses various mobile robots to
supported multi-robot research, including six gumstix controlled iRobot Creates and a Quanser QBall
quadrotor UAV. The LARS also possesses various force feedback user interface devices, including Logitech
force feedback joystick and driving wheel, and Novint Falcon, a 3-translational degree-of-freedom Delt-
structure desktop haptic device.

The Broadband Communication Laboratory has design and modeling tools for fiber and wireless transmission systems and networks, and all-optical packet routing and switching. The Advanced Communications Technologies (ACT) Laboratory provides a design and evaluation environment for the study of telecommunication systems and wireless and optical networks. ACT has facilities for designing network hardware, software, components, and applications.

The Center for Systems, Communications, and Signal Processing, with the purpose of promoting research and education in general communications, signal processing, control systems, medical and biological systems, circuits and systems and related software, is located in the Erik Jonsson School.

The Wireless Information Systems (WISLAB) and Antenna Measurement Laboratories have wireless experimental equipment with a unique multiple antenna testbed to integrate and to demonstrate radio functions (i.e. WiFi and WiMAX) under different frequency usage characteristics. With the aid of the Antenna Measurement Lab located in the Waterview Science and Technology Center (WSTC), the researchers can design, build, and test many types of antennas.

The Quality of Life Technology Laboratory is a multidisciplinary engineering education, research and developmental laboratory aimed at improving Quality of Life of people through technological advancements, innovations, and intelligent system designs. It has design, modeling and simulation tools for medical devices and systems.

The faculty of the Erik Jonsson School’s Photonic Technology and Engineering Center (PhoTEC) carry out research in enabling technologies for microelectronics and telecommunications. Current research areas include nonlinear optics, Raman amplification in fibers, optical switching, applications of optical lattice filters, microarrays, integrated optics, and optical networking.

In addition to the facilities on campus, cooperative arrangements have been established with many local industries to make their facilities available to UT Dallas graduate engineering students.

**Master of Science in Electrical Engineering**

*33 semester credit hours minimum*

**Admission Requirements**

The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission). A student lacking undergraduate prerequisites for graduate courses in electrical engineering must complete these prerequisites or receive approval from the graduate advisor and the course instructor.

A diagnostic exam may be required. Specific admission requirements follow.

The student entering the MSEE program should meet the following guidelines:

- An undergraduate preparation equivalent to a baccalaureate in electrical engineering from an accredited engineering program.
- A grade point average in upper-division quantitative coursework of 3.0 or better on a 4.0 point scale, and
• GRE revised scores of 154, 156, and 4 for the verbal, quantitative, and analytical writing components, respectively, are advisable based on our experience with student success in the program.

Applicants must submit three letters of recommendation from individuals who are able to judge the candidate's probability of success in pursuing a program of study leading to the master's degree. Applicants must also submit an essay outlining the candidate's background, education, and professional goals. Students from other engineering disciplines or from other science and math areas may be considered for admission to the program; however, some additional coursework may be necessary before starting the master's program.

Degree Requirements

The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

The MSEE requires a minimum of 33 semester credit hours.

All students must have an academic advisor and an approved degree plan. These are based upon the student's choice of concentration (Biomedical Applications of Electrical Engineering; Circuits and Systems; Communications; Control Systems; Digital Systems; Photonic Devices and Systems; Power Electronics and Energy Systems; RF and Microwave Engineering; Signal Processing; Solid State Devices and Micro Systems Fabrication). Courses taken without advisor approval will not count toward the 33 semester credit hour requirement. Successful completion of the approved course of studies leads to the MSEE degree.

The MSEE program has both a thesis and a non-thesis option. All part-time MSEE students will be assigned initially to the non-thesis option. Those wishing to elect the thesis option may do so by obtaining the approval of a faculty thesis supervisor. With the prior approval of an academic advisor, non-thesis students may count no more than 3 semester credit hours of research or individual instruction courses towards the 33 semester credit hour requirement.

All full-time, supported students are required to participate in the thesis option. The thesis option requires nine semester credit hours of research (of which three must be thesis semester credit hours), a written thesis submitted to the graduate school, and a formal public defense of the thesis. The supervising committee administers this defense and is chosen in consultation with the student's thesis advisor prior to enrolling for thesis credit. Research and thesis semester credit hours cannot be counted in an MSEE degree plan unless a thesis is written and successfully defended.

Concentrations

One of the nine concentrations listed below, subject to approval by a graduate advisor, must be used to fulfill the requirements of the MSEE program. Students must achieve an overall GPA (grade point average) of 3.0 or better, a GPA of 3.0 or better in their core MSEE classes, and a grade of B- or better in all their core MSEE classes in order to satisfy their degree requirements. One 5000 level electrical engineering course can be counted towards the graduate semester credit hours.

Biomedical Applications of Electrical Engineering

This curriculum provides a graduate-level introduction to advanced methods and biomedical applications of electrical engineering.
Each student electing this concentration must take 15 semester credit hours:

EEBM 6373 Anatomy and Human Physiology for Engineers
EEBM 6374 Genes, Proteins and Cell Biology for Engineers
EEBM 6376 Lecture Course in Biomedical Applications of Electrical Engineering

and two core courses from any one other concentration.

Approved electives must be taken to make a total of 33 semester credit hours.

Depending on the specific orientation of the course program it can be very beneficial to the student to take courses from other departments (e.g. Biology, Chemistry, Brain and Behavioral Sciences, Computer Science-Bioinformatics). Typically, not more than three approved courses can be taken outside the electrical engineering (EE) department. Additional courses can be taken only with the explicit approval by the department head.

It is highly recommended that students take an independent study course with an EE faculty member that will be counted as one of the EE electives. The independent study course is intended to gear the coursework towards one of the following research areas in the department: biosensors, biomedical signal processing, bioinstrumentation, medical imaging, biomaterials, and bio-applications in RF.

Circuits and Systems

The courses in this curriculum emphasize the design and test of circuits and systems, and the analysis and modeling of integrated circuits.

Each student electing this concentration must take five required courses (15 semester credit hours).

Two of the courses are:

REET 6325 VLSI Design
REET 6326 Analog Integrated Circuit Design

The remaining three courses must be selected from:

REET 6378 Power Management Circuits
REET 6379 Energy Harvesting, Storage, and Powering for Microsystems
REET 7325 Advanced VLSI Design
REET 7326 Advanced Analog Integrated Circuit Design
REET 7327 Data Converters
EEDG 6301 Advanced Digital Logic
EEDG 6303 Testing and Testable Design
EEDG 6306 Application Specific Integrated Circuit Design
EEDG 6375 Design Automation of VLSI Systems
REET 6330 RF Integrated Circuit Design

Approved electives must be taken to make a total of 33 semester credit hours.
Communications
This curriculum emphasizes the application and theory of all phases of modern communications.
Each student electing this concentration must take four required courses (12 semester credit hours).

Two of the courses are:
- EESC 6349 Random Processes
- EESC 6352 Digital Communication Systems

The remaining two must be selected from:
- EEOP 6310 Optical Communication Systems
- EERF 5306 Radio Frequency Engineering
- EESC 6340 Introduction to Telecommunications Networks
- EESC 6341 Information Theory I
- EESC 6343 Detection and Estimation Theory
- EESC 6344 Coding Theory
- EESC 6353 Broadband Digital Communication
- EESC 6360 Digital Signal Processing I
- EESC 6390 Introduction to Wireless Communication Systems

Approved electives must be taken to make a total of 33 semester credit hours.

Control Systems
This curriculum emphasizes methods to predict, estimate, and regulate the behavior of electrical, mechanical, or other systems including robotics.
Each student electing this concentration must take four required courses (12 semester credit hours).

Two of the courses are:
- EECS 6331 Linear Systems
- EESC 6349 Random Processes

The remaining two must be selected from:
- EECS 6336 Nonlinear Systems
- EEGR 6381 Computational Methods in Engineering
- EESC 6343 Detection and Estimation Theory
- EESC 6360 Digital Signal Processing I
- EESC 6364 Pattern Recognition
- EESC 7V85 Special Topics in Signal Processing

Approved electives must be taken to make a total of 33 semester credit hours.
Digital Systems

The goal of the curriculum is to educate students about issues arising in the design and analysis of digital systems, an area relevant to a variety of high-technology industries. Because the emphasis is on systems, coursework focuses on three areas: hardware design, software design, and analysis and modeling.

Each student electing this concentration must take four required courses (12 semester credit hours):

Two of the courses are:

- **EEDG 6301** Advanced Digital Logic
- **EEDG 6304** Computer Architecture

The remaining two must be selected from:

- **EECT 6325** VLSI Design
- **EEDG 6302** Microprocessor Systems
- **EEDG 6345** Engineering of Packet-Switched Networks

Approved electives must be taken to make a total of 33 semester credit hours.

Photonic Devices and Systems

This curriculum is focused on the application and theory of modern optical devices, materials, and systems.

Each student electing this concentration must take four required courses (12 semester credit hours).

- **EEGR 6316** Fields and Waves
- **EEOP 6310** Optical Communication Systems
- **EEOP 6311** Photonic Devices and Integration
- **EEOP 6314** Principles of Fiber and Integrated Optics

Approved electives must be taken to make a total of 33 semester credit hours.

Power Electronics and Energy Systems

The goal of the curriculum is to prepare students to address growing needs in contemporary power electronics and energy related areas. The coursework focuses on fundamentals of power electronics, design and control of motor drives, power management, and energy systems.

Each student electing this concentration must take four required courses (12 semester credit hours):

Two of the courses are:

- **EEPE 6354** Power Electronics
- **EEPE 6356** Adjusted Speed Motor Drives

The remaining two must be selected from:
Approved electives must be taken to make a total of 33 semester credit hours.

**RF and Microwave Engineering**

This curriculum is focused on the application and theory of modern electronic devices, circuits, and systems in the radiofrequency and microwave regime.

Each student electing this concentration must take the following four required courses (12 semester credit hours):

Four of the courses are:

- EEGR 6316 Fields and Waves
- EERF 6311 RF and Microwave Circuits
- EERF 6355 RF and Microwave Amplifier Design
- EERF 6395 RF and Microwave Systems Engineering

Approved electives must be taken to make a total of 33 semester credit hours.

**Signal Processing**

This curriculum emphasizes the application and theory of signal processing.

Each student electing this concentration must take four required courses (12 semester credit hours).

Two of the courses are:

- EESC 6349 Random Processes
- EESC 6360 Digital Signal Processing I

The remaining two must be selected from:

- EESC 6343 Detection and Estimation Theory
- EESC 6350 Signal Theory
- EESC 6361 Digital Signal Processing II
- EESC 6362 Introduction to Speech Processing
- EESC 6363 Digital Image Processing
- EESC 6364 Pattern Recognition
Solid State Devices and Micro Systems Fabrication

This concentration is focused on the fundamental principles, design, fabrication and analysis of solid-state devices and associated micro systems.

Each student electing this concentration must take four required courses (12 semester credit hours).

Two of the courses are:

- EECR 6316 Fields and Waves
- EEMF 6319 Quantum Physical Electronics

and at least two of the following four courses:

- EEMF 6320 Fundamentals of Semiconductor Devices
- EEMF 6321 Active Semiconductor Devices
- EEMF 6322 Semiconductor Processing Technology
- EEMF 6382 Introduction to MEMS

Approved electives must be taken to make a total of 33 semester credit hours.

Doctor of Philosophy in Electrical Engineering

75 semester credit hours minimum beyond the baccalaureate degree

Admission Requirements

The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

The PhD in Electrical Engineering is awarded primarily to acknowledge the student's success in an original research project, the description of which is a significant contribution to the literature of the discipline. Applicants for the doctoral program are therefore selected by the Electrical Engineering Program Graduate Committee on the basis of research aptitude, as well as academic record. Applications for the doctoral program are considered on an individual basis.

The following are guidelines for admission to the PhD program in Electrical Engineering:

- A master's degree in electrical engineering or a closely associated discipline from an institution of higher education in the U.S. or from an acceptable foreign university. Consideration will be given to highly qualified students wishing to pursue the doctorate without satisfying all of the requirements for a master's degree. A grade point average (GPA) in graduate coursework of 3.5 or better on a 4.0 point scale.
• GRE revised scores of 154, 156, and 4 for the verbal, quantitative, and analytical writing components, respectively, are advisable based on our experience with student success in the program.

Applicants must submit three letters of recommendation on official school or business letterhead or the UT Dallas Letter of Recommendation Form from individuals who are familiar with the student's record and able to judge the candidate's probability of success in pursuing doctoral study in electrical engineering.

Applicants must also submit a narrative describing their motivation for doctoral study and how it relates to their professional goals.

For students who are interested in a PhD but are unable to attend school full-time, there is a part-time option. The guidelines for admission to the program and the degree requirements are the same as for full-time PhD students. All students must have an academic advisor and an approved plan of study.

Degree Requirements

The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

Each program for doctoral study is individually tailored to the student's background and research objectives by the student's supervisory committee. The program will require a minimum of 75 semester credit hours beyond the baccalaureate degree. These credits must include at least 30 semester credit hours of graduate level courses beyond the baccalaureate level in the major concentration. All PhD students must demonstrate competence in the master's level core courses in their research area. All students must have an academic advisor and an approved plan of study.

Also required are:

• EE PhD qualifying exam (QE). The QE consists of two parts: background knowledge part (Part 1) and research capability part (Part 2). Passing of QE requires passing both parts in any order within 3 long semesters starting from the first semester of admission into the UTD EE Ph.D. program for students with MS degree and within 4 long semesters for students with BS degree. The QE application form for each part should be submitted to the EE Graduate Office by the Census Day of the full-term session of a long semester. Details of EE Ph.D. Qualifying Exam (QE) policy can be found on the EE department website. A comprehensive exam consisting of: a written dissertation proposal, a public seminar, and a private oral examination conducted by the Ph.D. candidate’s supervising committee. At least half of the supervising committee must comprise of core EE faculty members and it must be chaired or co-chaired by an EE faculty member.

• Completion of a major research project culminating in a dissertation demonstrating an original contribution to scientific knowledge and engineering practice. The dissertation will be defended publicly. The rules for this defense are specified by the Office of the Dean of Graduate Studies. Neither a foreign language nor a minor is required for the PhD. However, the student's supervisory committee may impose these or other requirements that it feels are necessary and appropriate to the student's degree program.

Research

The principal concentration areas for the MSEE program are: Biomedical Applications of Electrical Engineering; Circuits and Systems; Communications; Control Systems; Digital Systems; Photonic Devices and Systems; Power Electronics and Energy Systems, RF and Microwave Engineering; Signal Processing;
Solid State Devices and Micro Systems Fabrication. Besides courses required for each concentration, a comprehensive set of electives is available in each area.

Doctoral level research opportunities include: VLSI design and test, analog and mixed-signal circuits and systems, RF and microwave engineering, biomedical applications of electrical engineering, power electronics, renewable energy, motors and drives, vehicular technology, computer architecture, embedded systems, computer aided design (CAD), ASIC design methodologies, high speed system-on-chip design and test, reconfigurable computing, network processor design, interconnection networks, nonlinear signal-processing, smart antennas and array processing, statistical and adaptive signal processing, multimedia signal processing, image processing, real-time imaging, medical image analysis, pattern recognition, speech processing and recognition, control theory, robotics, digital communications, modulation and coding, electromagnetic-wave propagation, diffractive structures, fiber and integrated photonics, nonlinear optics, optical transmission systems, all-optical networks, optical investigation of material properties (reflectometry and ellipsometry), optical instrumentation, lasers, quantum-well optical devices, theory and experiments in semiconductor-heterostructure devices, plasma deposition and etching, nanoelectronics, wireless communication, network protocols and evaluation, mobile computing and networking, and optical networking.

Interdisciplinary Opportunities: Continuing with the established tradition of research at UT Dallas, the Electrical Engineering Program encourages students to interact with researchers in the strong basic sciences and mathematics. Cross disciplinary collaborations have been established with the Chemistry, Mathematics, and Physics programs of the School of Natural Sciences and with faculty in the School of Brain and Behavioral Science.
Erik Jonsson School of Engineering & Computer Science

Department of Materials Science and Engineering

Department Faculty
Professors: Orlando Auciello, Yves J. Chabal, Kyeongjae (KJ) Cho, Massimo V. Fischetti, Bruce E. Gnade, Julia W. P. Hsu, Jiyoung Kim, Moon J. Kim, Robert M. Wallace
Professor Emeritus: Don Shaw
Associate Professors: Lev D. Gelb, Manuel Quevedo-Lopez, Amy V. Walker
Assistant Professors: Christopher L. Hinkle, Walter E. Voit, Chadwin D. Young
Adjunct Faculty: Shela Aboud (Stanford University); Husam Alshareef (KAUST, Saudi Arabia); Luigi Colombo (Texas Instruments); Mathew David Halls (Schrödinger Inc.); Dale Huber (Sandia National Laboratories); Steven Mick (Protochips, Inc.); Sriram Muthukumar (Maxim Integrated); Carlos Paz de Araujo (University of Colorado at Colorado Springs); Bhabendra Pradahn (NanoHoldings LLC); Ecatherina (Katy) Roedenko (IntelliEpi); Bin Shan (Hua-Zhong University of Science and Technology); Eric Vogel (Georgia Tech); Weichao Wang (Nankai University); Ka Xiong (Dongguan Innovative New Materials - INM)

Objectives
The objective of the Master of Science (MS) degree in materials science and engineering is to provide intensive preparation for the professional practice in modern materials science by those engineers and scientists who wish to continue their education. Courses are offered at times and locations convenient for the student who is employed on a full-time basis.

The objective of the Doctor of Philosophy (PhD) program in materials science and engineering is to prepare individuals to perform original, cutting-edge research in materials science, particularly in the areas of nanostructured materials, electronics, optical and magnetic materials, bio-mimetic materials, polymeric materials, MEMS materials and systems, organic electronics, and advanced processing of modern materials.
Scholarship Opportunities
The Erik Jonsson School of Engineering and Computer Science offers competitive scholarship awards for very well qualified students. Interested students should request application materials by contacting the Department of Materials Science and Engineering.

Master of Science in Materials Science and Engineering
33 semester credit hours minimum

Admission Requirements
The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

A student lacking undergraduate prerequisites for graduate courses in Materials Science and Engineering (MSEN) must complete these prerequisites or receive approval from the graduate advisor and the course instructor. A diagnostic exam may be required. Specific admission requirements are as follows:

- Student has met standards equivalent to those currently required for admission to the PhD or master's degree programs in Materials Science, Electrical Engineering, Chemistry, Physics, or Biology.
- A grade point average (GPA) in undergraduate-level coursework of 3.5 or better on a 4.0 point scale.
- GRE revised scores which are recommended as 154 or above, 154 or above, and 4 for the verbal, quantitative, and analytical writing components, respectively, are advisable based on our experience with student success in the program.

Students, who fulfill only some of the above requirements, if admitted conditionally, will be required to take graduate level courses as needed to make up any deficiencies.

Degree Requirements
The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

The MSEN MS degree requires a minimum of 33 semester credit hours.

All students must have an academic advisor and an approved degree plan. These are based upon the student's choice of concentration. Courses taken without advisor approval will not count toward the 33 semester credit hour requirement. Successful completion of the approved course of studies leads to the MS degree.

MS students undertaking the non-thesis option must complete at least 33 semester credit hours of coursework with a grade of B or better.

MS students undertaking the thesis option must carry out a research project under the direction of a faculty or affiliated faculty in Materials Science and Engineering, and complete and defend a thesis on the research project, but they need only complete the four core courses and 9 semester credit hours of advanced coursework. A Supervisory Committee will be appointed once the faculty member accepts the student for a
research project. The rules for the thesis defense are specified by the Office of the Dean of Graduate Studies.

**Students must obtain a grade of B- or better in each of the following core classes and maintain an average core class GPA of at least 3.0 to remain in good standing and satisfy their degree requirements:**

- **MSEN 5310** Thermodynamics of Materials
- **MSEN 5360** Materials Characterization
- **MSEN 6319** Quantum Mechanics for Materials Scientists
- **MSEN 6324 (EEMF 6324)** Electronic, Optical and Magnetic Materials

Note: the presence of a course number in parentheses indicates that this course is cross-listed in another department.

**A minimum of 9 semester credit hours of advanced coursework is required, from the following list:**

- **MSEN 5340 (CHEM 5340)** Advanced Polymer Science and Engineering
- **MSEN 5361** Fundamentals of Surface and Thin Film Analysis
- **MSEN 5370** Ceramics and Metals
- **MSEN 5375** Electronic Devices Based On Organic Solids
- **MSEN 5377 (PHYS 5377)** Computational Physics of Nanomaterials
- **MSEN 6310 (MECH 6367)** Mechanical Properties of Materials
- **MSEN 6320 (EEMF 6320)** Fundamentals of Semiconductor Devices
- **MSEN 6327 (EEMF 6327)** Semiconductor Device Characterization
- **MSEN 6330** Phase Transformations
- **MSEN 6339** Nanostructured Materials: Synthesis, Properties and Applications
- **MSEN 6340** Advanced Electron Microscopy
- **MSEN 6350** Imperfections in Solids
- **MSEN 6362** Diffraction Science

These courses are intended to provide greater depth and advanced training in areas broadly relevant to Materials Science and Engineering research.

The remaining semester credit hours may be taken from the following list of elective courses (or other electives which have been approved by the student's thesis advisor or the graduate director as appropriate.):

- **MSEN 5300 (PHYS 5376)** Introduction to Materials Science
- **MSEN 5320** Materials Science for Sustainable Energy
- **MSEN 5331 (CHEM 5331)** Advanced Organic Chemistry I
- **MSEN 5333 (CHEM 5333)** Advanced Organic Chemistry II
### Doctor of Philosophy in Materials Science and Engineering

*75 semester credit hours minimum beyond the baccalaureate degree*

**Admission Requirements**

The university's general admission requirements are discussed on the [Graduate Admission page](#).
A student lacking undergraduate prerequisites for graduate courses in Materials Science and Engineering (MSEN) must complete these prerequisites or receive approval from the graduate advisor and the course instructor.

A diagnostic exam may be required. Specific admission requirements follow:

- Student has met standards equivalent to those currently required for admission to the PhD or master's degree programs in Materials Science, Electrical Engineering, Chemistry, Physics, or Biology.
- A grade point average (GPA) in undergraduate-level coursework of 3.5 or better on a 4.0 point scale
- GRE revised scores which are recommended as 154 or above, 154 or above, and 4 for the verbal, quantitative, and analytical writing components, respectively, are advisable based on our experience with student success in the program.

Students who fulfill some of the above requirements, if admitted conditionally, will be required to take graduate level courses as needed to make up any deficiencies.

### Degree Requirements

The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

The MSEN PhD requires a minimum of 75 semester credit hours beyond the baccalaureate degree. These credits must include at least 30 semester credit hours of graduate-level coursework in MSEN.

All students must have an academic advisor and an approved degree plan. Courses taken without advisor approval will not count toward the 75 semester credit hour requirement.

Each doctoral student must carry out original research in the area of Materials Science and Engineering, under the direction of a faculty or affiliated faculty of Materials Science and Engineering, and complete and defend a dissertation on the research project. A Supervisory Committee will be appointed once the faculty member accepts the student for a research project.

Students must be admitted to doctoral candidacy by passing a Qualifying Exam, which will be administered near the time that the students have completed their coursework. Upon passing the Qualifying Exam, students must present and defend a Research Proposal with their Supervisory Committee within approximately nine months or sooner after passing the Qualifying Exam. The rules for the dissertation research and defense are specified by the Office of the Dean of Graduate Studies.

Students must obtain a grade of B- or better in each of the following core classes and maintain an average core class GPA of at least 3.0 to remain in good standing and satisfy their degree requirements:

- **MSEN 5310** Thermodynamics of Materials
- **MSEN 5360** Materials Characterization
- **MSEN 6319** Quantum Mechanics for Materials Scientists
- **MSEN 6324** (EEMF 6324) Electronic, Optical and Magnetic Materials

Note: the presence of a course number in parentheses indicates that this course is cross-listed in another department.
A student may petition for waiver of core courses based on prior coursework of equivalent scope and level, and if the Department finds that the student has already mastered the course material, the student may replace that core course with elective courses for up to a total of twelve semester credit hours.

A minimum of 9 semester credit hours of advanced coursework is required, from the following list:

- **MSEN 5340 (CHEM 5340)** Advanced Polymer Science and Engineering
- **MSEN 5361** Fundamentals of Surface and Thin Film Analysis
- **MSEN 5370** Ceramics and Metals
- **MSEN 5375** Electronic Devices Based On Organic Solids
- **MSEN 5377 (PHYS 5377)** Computational Physics of Nanomaterials
- **MSEN 6310 (MECH 6367)** Mechanical Properties of Materials
- **MSEN 6320 (EEMF 6320)** Fundamentals of Semiconductor Devices
- **MSEN 6327 (EEMF 6327)** Semiconductor Device Characterization
- **MSEN 6330** Phase Transformations
- **MSEN 6339** Nanostructured Materials: Synthesis, Properties and Applications
- **MSEN 6340** Advanced Electron Microscopy
- **MSEN 6350** Imperfections in Solids
- **MSEN 6362** Diffraction Science

These courses are intended to provide greater depth and advanced training in areas broadly relevant to Materials Science and Engineering research.

Any remaining semester credit hours of coursework may be taken from the following list of elective courses (or other electives which have been approved by the student's thesis advisor):

- **MSEN 5300 (PHYS 5376)** Introduction to Materials Science
- **MSEN 5320** Materials Science for Sustainable Energy
- **MSEN 5331 (CHEM 5331)** Advanced Organic Chemistry I
- **MSEN 5333 (CHEM 5333)** Advanced Organic Chemistry II
- **MSEN 5341 (CHEM 5341)** Advanced Inorganic Chemistry I
- **MSEN 5344** Thermal Analysis
- **MSEN 5353** Integrated Circuit Packaging
- **MSEN 5355 (CHEM 5355)** Analytical Techniques I
- **MSEN 5356 (CHEM 5356)** Analytical Techniques II
- **MSEN 5371 (PHYS 5371)** Solid State Physics
- **MSEN 5383 (EEMF 5383, MECH 5383, and PHYS 5383)** Plasma Technology
- **MSEN 5410 (BIOL 5410)** Biochemistry
MSEN 5440 (BIOL 5440) Cell Biology
MSEN 6313 (EEOP 6313) Semiconductor Opto-Electronic Devices
MSEN 6321 (EEMF 6321) Active Semiconductor Devices
MSEN 6322 (EEMF 6322, MECH 6348) Semiconductor Processing Technology
MSEN 6341 Advanced Electron Microscopy Laboratory
MSEN 6348 (EEMF 6348, MECH 6341) Lithography and Nanofabrication
MSEN 6355 (BMEN 6355) Nanotechnology and Sensors
MSEN 6358 (BIOL 6358) Bionanotechnology
MSEN 6361 Deformation Mechanisms in Solid Materials
MSEN 6371 (PHYS 6371) Advanced Solid State Physics
MSEN 6374 (PHYS 6374) Optical Properties of Solids
MSEN 6377 (PHYS 6377) Physics of Nanostructures: Carbon Nanotubes, Fullerenes, Quantum Wells, Dots and Wires
MSEN 6382 (EEMF 6382, MECH 6347) Introduction to MEMS
MSEN 7320 (EEMF 7320) Advanced Semiconductor Device Theory
MSEN 7V80 Special Topics in Materials Science and Engineering
MSEN 8V40 Individual Instruction in Materials Science and Engineering
Research effort towards the degree should be completed under:
MSEN 8V70 Research In Materials Science and Engineering
MSEN 8V99 Dissertation

Description of Facilities Available for Conducting Research

An extensive array of the materials characterization, synthesis, and processing tools exist in the department for student use in research. Characterization capabilities include advanced high-resolution electron microscopy, x-ray diffraction, a large variety of surface analysis methods, and electrical characterization. Thin film deposition methods include atomic layer deposition, sputter deposition, thermal deposition, molecular beam epitaxy, chemical vapor deposition, pulsed laser deposition, and gas phase adsorption. Fabrication methods can be accomplished in the Cleanroom Research Laboratory as well ([www.utdallas.edu/research/cleanroom](http://www.utdallas.edu/research/cleanroom)). Computational modeling activities include studies from the atomistic to the macroscopic level. Details of the capabilities and faculty research can be obtained at: [mse.utdallas.edu](http://mse.utdallas.edu).
Erik Jonsson School of Engineering and Computer Science

Department of Mechanical Engineering

Department Faculty

Professors: Hongbing Lu, Reza Moheimani, Mario A. Rotea, Seung M. You
Associate Professors: Stefano Leonardi, Yaoyu Li, Dong Qian
Assistant Professors: William Anderson, Wonjae Choi, Robert D. Gregg, Fatemeh Hassanipour, Giacomo (Valerio) Iungo, Ann Majewicz, Majid Minary, Wooram Park, Zhenpeng Qin, Yonas Tadesse, Walter E. Voit

Visiting Assistant Professors: Turaj Ashuri
Senior Lecturers: Terry V. Baughn, Robert Hart, James Hilkert, Oziel Rios, P.L. Stephan Thamban

UT Dallas Affiliated Faculty

Professor Emeritus: Louis R. Hunt
Associate Professors: Gerald O. Burnham, Kyeongjae (KJ) Cho, Wenchuang (Walter) Hu

Objectives

The program leading to the MS degree in Mechanical Engineering (ME) provides advanced studies for both recent baccalaureate graduates and experienced engineers in the following core areas: control and dynamic systems, manufacturing and design innovation, mechanics and materials, and thermal and fluid sciences. The program is designed to provide advanced skills in mechanical engineering. The program also provides the foundation for a PhD degree in engineering or closely related disciplines.

The PhD program in Mechanical Engineering at UT Dallas is offered as a joint degree program between UT Dallas and UT Arlington. The objective of the PhD program is to prepare talented doctoral students for careers in which they will create new technologies and processes for the design, manufacturing, control and operation of components and systems in energy, health care, security and defense, and transportation. Given the key enabling role of mechanical engineering in all areas of technology, the graduates of this program will have the preparation to become technical leaders in emerging and existing scientific and industrial fields in Texas and the nation.
Facilities
The Engineering and Computer Science Building and the Natural Science and Engineering Research Laboratory provide extensive facilities for teaching and research. These include wind tunnels, material test systems, nanoindenter, impact facilities, ultra-high speed camera, DMA, XPS, FTIR, NMR, TGA, DSC, XRD, \( \mu \)-Raman, Fluorescence Spectrometer, AFM, FIB/SEM, and atomic resolution TEM. A Class 10000 microelectronics clean room facility, including e-beam lithography, sputter deposition, PECVD, LPCVD, etch, ash and evaporation, is available for student projects and research.

Concentration Areas
There are four technical areas of concentration for the graduate degree programs in Mechanical Engineering, which are:

- Dynamic Systems and Control (DSC)
- Manufacturing and Design Innovation (MDI)
- Mechanics and Materials (MM)
- Thermal and Fluid Sciences (TFS)

All graduate students must select a concentration area within the first two semesters in the program.

Scholarship Opportunities
The Erik Jonsson School of Engineering and Computer Science offers competitive scholarships for highly qualified students. Interested students should request application materials by contacting the Department of Mechanical Engineering (ME).

Master of Science in Mechanical Engineering
33 semester credit hours minimum

Admission Requirements
The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

The student entering the MS ME program should meet the following guidelines:

- A bachelor's degree in engineering or one of the natural sciences from an institution of higher education in the U.S. or from a comparable institution abroad,
- A grade point average (GPA) in upper-division quantitative coursework of 3.0 or better on a 4.0 point scale, and
- GRE revised scores of 150, 160, and 4 for the verbal, quantitative, and analytical writing components, respectively, are advisable based on our experience with student success in the program.
- Three letters of recommendation from individuals who are able to judge the candidate's potential for success in the master's degree program.
• An essay outlining the candidate's background, education, and professional goals.

Students from other engineering disciplines or from other areas of science or mathematics may be considered for admission to the program; however, additional coursework may be necessary to complete the master's program.

A student lacking undergraduate prerequisites for graduate courses in mechanical engineering must complete these prerequisites or receive approval from the faculty advisor and the course instructor.

**Degree Requirements**

The university's general degree requirements are discussed on the [Graduate Policies and Procedures page](catalog.utdallas.edu/2015/graduate/policies/policy).

The MS ME requires a minimum of 33 semester credit hours.

All students must have a faculty advisor and an approved plan of study within the first two consecutive long semesters in the program. The plan of study is based upon the student's choice of concentration area. Courses taken without advisor's approval will not be counted towards the 33 semester credit hour requirement. Successful completion of an approved plan of study leads to the MS ME degree.

The MS ME program has both a thesis and a non-thesis option. All part-time MS ME students will be assigned initially to the non-thesis option. Those wishing to elect the thesis option may do so by obtaining the approval of a faculty thesis supervisor.

All full-time, supported students are required to participate in the thesis option. The thesis option requires six semester credit hours of research, a written thesis submitted to the graduate school, and a formal public defense of the thesis. The supervising committee administers this defense and is chosen in consultation with the student's thesis advisor prior to enrolling for thesis credit. Research and thesis semester credit hours cannot be counted in a MS ME degree plan unless a thesis is written and successfully defended.

**Required Major Courses: 12 semester credit hours**

A MS student in ME must take one core course from each of the four concentration areas in the list below, and must receive a grade of B- or better in the four core courses. A student must maintain a grade point average (GPA) of at least 3.0 to remain in good standing and satisfy the degree requirements.

**Dynamic Systems and Control**

- MECH 6300 *(EECS 6331, SYSM 6307)* Linear Systems
- MECH 6314 *(SYSM 6306, BMEN 6372)* Engineering Systems: Modeling and Simulation

**Manufacturing and Design Innovation**

- MECH 6303 Computer Aided Design

**Mechanics and Materials**

- MECH 6306 Continuum Mechanics
- MECH 6350 Advanced Solid Mechanics

**Thermal and Fluid Sciences**

Deleted: 4
**Prescribed Electives within Concentration Areas**

The following is a list of prescribed elective courses. Students must take at least 3 prescribed elective courses from one concentration area. Courses counted towards satisfying requirements on Required Major Courses cannot be counted towards satisfying requirements on Prescribed Electives. All electives must be approved by faculty advisor.

Note: the presence of a course number in parentheses indicates that this course is cross-listed in another department.

### Dynamic Systems and Controls (DSC)

**MS students must take at least 3 courses from one concentration area.**

- MECH 5308 (BMEN 5375, EECS 5375) Introduction to Robotics
- MECH 5310 Intermediate Dynamics
- MECH 6300 (EECS 6331, SYSM 6307) Linear Systems
- MECH 6311 Advanced Mechanical Vibrations
- MECH 6312 (EECS 6349) Random Processes
- MECH 6314 (SYSM 6306, BMEN 6372) Engineering Systems: Modeling and Simulation
- MECH 6316 (SYSM 6322) Digital Control of Automotive Powertrain Systems
- MECH 6317 (EECS 6302, SYSM 6302) Dynamics of Complex Networks and Systems
- MECH 6318 (SYSM 6305) Optimization Theory and Practice
- MECH 6323 (SYSM 6323, EECS 6323) Robust Control Systems
- MECH 6324 (BMEN 6324, EECS 6324) Robot Control
- MECH 6V29 Special Topics in Controls and Dynamic Systems

### Manufacturing and Design Innovation (MDI)

**MS students must take at least 3 courses from one concentration area.**

- MECH 6311 Advanced Mechanical Vibrations
- MECH 6314 (BMEN 6372, SYSM 6306) Engineering Systems: Modeling and Simulation
- MECH 6317 (EECS 6302, SYSM 6302) Dynamics of Complex Networks and Systems
- MECH 6318 (SYSM 6305) Optimization Theory and Practice
- MECH 6330 Multiscale Design and Optimization
- MECH 6333 Materials Design and Manufacturing
MECH 6334 Smart Materials and Structures
MECH 6335 (OPRE 6340) Flexible Manufacturing Strategies
MECH 6337 (SYSM 6301) Systems Engineering, Architecture and Design
MECH 6341 (EEMF 6348, MSEN 6348) Lithography and Nanofabrication
MECH 6347 (EEMF 6382, MSEN 6382) Introduction to MEMS
MECH 6348 (EEMF 6322, MSEN 6322) Semiconductor Processing Technology
MECH 6353 Computational Mechanics
MECH 6354 Experimental Mechanics
MECH 6V49 Special Topics in Manufacturing and Design Innovation

Mechanics and Materials (MM)

MS students must take at least 3 courses from one concentration area.

MECH 5350 Introduction to Finite Element Method
MECH 6306 Continuum Mechanics
MECH 6350 Advanced Solid Mechanics
MECH 6353 Computational Mechanics
MECH 6354 Experimental Mechanics
MECH 6355 Viscoelasticity
MECH 6356 Fracture Mechanics
MECH 6367 (MSEN 6310) Mechanical Properties of Materials
MECH 6368 (MSEN 6350) Imperfections in Solids
MECH 6V69 Special Topics in Mechanics and Materials

Thermal and Fluid Sciences (TFS)

MS students must take at least 3 courses from one concentration area.

MECH 5370 Introduction to Wind Energy
MECH 5372 Introduction to Compressible Fluid Mechanics
MECH 5373 Thermal Management of Microelectronics
MECH 5376 Introduction to Computational Thermal Fluid Science
MECH 5383 (EEMF 5383, MSEN 5383, PHYS 5383) Plasma Technology
MECH 6370 Incompressible Fluid Mechanics
MECH 6371 Computational Fluid Dynamics
MECH 6372 Turbulent Flows
MECH 6373 Convective Heat Transfer

Deleted: MECH 5307 Applied Thermodynamics
Students participating in the non-thesis option must also take 4 graduate level electives. Students participating in the thesis option must take 2 graduate level electives and the following courses to fulfill the research and thesis requirements of the MS ME degree program:

- **MECH 6V97** Research in Mechanical Engineering (1-9 semester credit hours)
- **MECH 6V98** Thesis (3 semester credit hours minimum)

All electives must be approved by the faculty advisor.

**Doctor of Philosophy in Mechanical Engineering**

*78 semester credit hours minimum beyond the baccalaureate degree*

**Admission Requirements**

The university's general admission requirements are discussed on the [Graduate Admission page](catalog.utdallas.edu/2015/graduate/admission).

The PhD in Mechanical Engineering is awarded primarily to acknowledge the student's success in an original research project, the description of which is a significant contribution to the scholarly literature. Applicants for the doctoral program are therefore selected by the Mechanical Engineering Graduate Committee on the basis of research aptitude as well as academic record.

The following are guidelines for admission to the PhD program in Mechanical Engineering:

- A master's or bachelor's degree in engineering or one of the natural sciences from an institution of higher education in the U.S. or from a comparable institution abroad.
- A grade point average (GPA) of 3.3 or better on a 4.0 point scale.
- GRE revised scores of 150, 160, and 4 for the verbal, quantitative and analytical components, respectively, are advisable based on our experience with student success. (See also UT Dallas requirements for English proficiency).
- Three letters of recommendation from individuals who are familiar with the student's record, and are able to judge the candidate's preparation and ability to succeed in doctoral study in Mechanical Engineering.
- An essay describing motivation for doctoral study and how it relates to the student's professional goals.

Students from other engineering disciplines or from other areas of science or mathematics may be considered for admission to the program; however, additional coursework may be necessary to complete the PhD program.
For students who are interested in pursuing a PhD but are unable to attend school full-time, there is a part-time option. The guidelines for admission to the program and the degree requirements are the same as for full-time PhD students.

**Degree Requirements**

The university's general degree requirements are discussed on the [Graduate Policies and Procedures page](catalog.utdallas.edu/2015/graduate/policies/policy).

Doctoral students must have a faculty advisor and an approved plan of study within the first two consecutive long semesters in the program. The faculty advisor shall be a faculty member, or affiliated faculty member, in Mechanical Engineering (ME). The plan of study is based upon the student's choice of concentration area. Each doctoral student must conduct original research in the area of Mechanical Engineering, under the direction of the faculty advisor. A supervisory committee will be formed once the faculty advisor accepts the student for a research project. The student must complete and defend a dissertation on the research project.

The PhD program in Mechanical Engineering requires a minimum of 78 semester credit hours beyond the baccalaureate degree. The breakdown is shown in the table below:

<table>
<thead>
<tr>
<th>Category</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td>12</td>
</tr>
<tr>
<td>Prescribed Electives</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics Electives</td>
<td>6</td>
</tr>
<tr>
<td>Free Electives</td>
<td>12</td>
</tr>
<tr>
<td>Dissertation</td>
<td>6 (minimum)</td>
</tr>
<tr>
<td>Other: Research in Mechanical Engineering</td>
<td>30 (minimum)</td>
</tr>
<tr>
<td>Total</td>
<td>78</td>
</tr>
</tbody>
</table>

Transfer of graduate level credit into a doctoral program in mechanical engineering is limited to a maximum of 27 semester credit hours of graduate course work upon approval by the graduate committee based on the recommendation by dissertation advisor.

**Required Major Courses: 12 semester credit hours**

A PhD student in ME must take one core course from each of the four concentration areas in the list below, and must receive a grade of B- or better in the four core courses.

**Dynamic Systems and Control**

MECH 6300 (EECS 6331, SYSM 6307) Linear Systems

MECH 6314 (SYSM 6306, BMEN 6372) Engineering Systems: Modeling and Simulation

**Manufacturing and Design Innovation**

MECH 6303 Computer Aided Design

**Mechanics and Materials**
Prescribed Electives within Concentration Areas: 12 semester credit hours

The following is a list of prescribed elective courses. A PhD student in Mechanical Engineering must take at least 4 courses from the list of prescribed elective courses in one of the four areas of concentration. Courses counted towards satisfying requirements on Required Major Courses cannot be counted towards satisfying requirements on Prescribed Electives. Upon approval from the student's faculty advisor and the Mechanical Engineering Graduate Committee, a qualified student can take other courses offered by UT Dallas or UT Arlington to satisfy the requirements on prescribed electives.

Note: the presence of a course number in parentheses indicates that this course is cross-listed in another department.

Dynamic Systems and Controls (DSC)

PhD students must take at least 4 courses from one concentration area.

- MECH 6300 (EECS 6331, SYSM 6307) Linear Systems
- MECH 6311 Advanced Mechanical Vibrations
- MECH 6312 (EESC 6349) Random Processes
- MECH 6313 (EECS 6336, BMEN 6388, SYSE 6324) Nonlinear Systems
- MECH 6314 (SYSM 6306, BMEN 6372) Engineering Systems: Modeling and Simulation
- MECH 6316 (SYSE 6322) Digital Control of Automotive Powertrain Systems
- MECH 6317 (SYSM 6302) Dynamics of Complex Networks and Systems
- MECH 6318 (SYSM 6305) Optimization Theory and Practice
- MECH 6323 (SYSE 6323, EECS 6323) Robust Control Systems
- MECH 6324 (BMEN 6324, EECS 6324) Robot Control
- MECH 6V29 Special Topics in Controls and Dynamic Systems

Manufacturing and Design Innovation (MDI)

PhD students must take at least 4 courses from one concentration area.

- MECH 6311 Advanced Mechanical Vibrations
- MECH 6314 (BMEN 6372, SYSM 6306) Engineering Systems: Modeling and Simulation
- MECH 6317 (EECS 6302, SYSM 6302) Dynamics of Complex Networks and Systems
MECH 6318 (SYSM 6305) Optimization Theory and Practice
MECH 6330 Multiscale Design and Optimization
MECH 6333 Materials Design and Manufacturing
MECH 6334 Smart Materials and Structures
MECH 6335 (OPRE 6340) Flexible Manufacturing Strategies
MECH 6337 (SYSM 6301) Systems Engineering, Architecture and Design
MECH 6341 (EEMF 6348, MSEN 6348) Lithography and Nanofabrication
MECH 6347 (EEMF 6382, MSEN 6382) Introduction to MEMS
MECH 6348 (EEMF 6322, MSEN 6322) Semiconductor Processing Technology
MECH 6353 Computational Mechanics
MECH 6354 Experimental Mechanics
MECH 6V49 Special Topics in Manufacturing and Design Innovation

Mechanics and Materials (MM)

PhD students must take at least 4 courses from one concentration area.

MECH 6306 Continuum Mechanics
MECH 6350 Advanced Solid Mechanics
MECH 6353 Computational Mechanics
MECH 6354 Experimental Mechanics
MECH 6355 Viscoelasticity
MECH 6356 Fracture Mechanics
MECH 6367 (MSEN 6310) Mechanical Properties of Materials
MECH 6368 (MSEN 6350) Imperfections in Solids
MECH 6V69 Special Topics in Mechanics and Materials

Thermal and Fluid Sciences (TFS)

PhD students must take at least 4 courses from one concentration area.

MECH 6370 Incompressible Fluid Mechanics
MECH 6371 Computational Fluid Dynamics
MECH 6372 Turbulent Flows
MECH 6373 Convective Heat Transfer
MECH 6374 Conductive and Radiative Heat Transfer
MECH 6375 Boiling Heat Transfer and Two-Phase Flow
MECH 6377 Advanced Thermodynamics
Mathematics Electives: 6 semester credit hours

The following is a list of suggested elective courses in mathematics.

Two courses are required for mathematics electives.

- **MATH 6303** Theory of Complex Functions I
- **MATH 6313** Numerical Analysis
- **MATH 6315** Ordinary Differential Equations
- **MATH 6318** Numerical Analysis of Differential Equations
- **MATH 6319** Principles and Techniques in Applied Mathematics I and **MATH 6320** Principles and Techniques in Applied Mathematics II
- **MATH 6308** Inverse Problems and Applications
- **MATH 6321** Optimization
- **MATH 6340** Numerical Linear Algebra
- **MECH 6391** (EEGR 6381) Computational Methods in Engineering
- **STAT 6331** Statistical Inference I
- **STAT 6337** Advanced Statistical Methods I and **STAT 6338** Advanced Statistical Methods II
- **STAT 6339** Linear Statistical Models
- **STAT 6341** Numerical Linear Algebra and Statistical Computing
- **MATH 7313** Partial Differential Equations I

Upon the approval of a student's faculty advisor, a qualified student can request to take other graduate courses in mathematics not listed above.

In addition to course requirements, the PhD students need to complete the following:

- **Qualifying Exam (QE):** It tests fundamental knowledge in mathematics and one concentration area of mechanical engineering. A student entering the PhD program must take this exam within 3 long semesters. A student has at most two attempts made within two consecutive semesters at this qualifying exam. The exam will be given during the fall and spring semesters.
- **Comprehensive Exam (CE):** Written dissertation proposal and an exam given by candidate's supervisory committee.
- **Final Exam:** Completion of a major research project culminating in a dissertation demonstrating an original contribution to the body of knowledge. The dissertation will be defended publicly. The rules for this defense are specified by the Office of the Dean of Graduate Studies.

A student who has passed the QE and maintained the GPA requirements in PhD level organized courses will be admitted to the PhD candidacy.

The following courses are required to fulfill the research and dissertation requirements of the PhD degree program:
MECH 8V70 Advanced Research in Mechanical Engineering (30 semester credit hours minimum)

MECH 8V99 Dissertation (6 semester credit hours minimum)

Neither a foreign language nor a minor is required for the PhD. However, the student's supervisory committee may impose these or other requirements that it feels are necessary and appropriate to the student's degree program.

Non-Degree Seeking Students in Mechanical Engineering

"Non-Degree Seeking" is a term which applies to students who are taking selected courses and who have not applied to, or been accepted into, a degree program. A student may be taking classes for various reasons; i.e., personal or professional enhancement, to transfer courses to another university, to correct a grade deficiency. Students who have not taken the GRE or GMAT, or who are awaiting results, may also be classified non-degree seeking.

A non-degree seeking student must meet the same academic eligibility requirements and English proficiency requirements as ME graduate degree seeking students. Non-degree seeking students who are ultimately admitted to a MS graduate degree program may transfer no more than 15 non-degree semester credit hours to the ME graduate degree program. A new application must be submitted when transferring from non-degree to degree seeking status.
Department of Systems Engineering

Department Faculty

Professors: Mathukumalli Vidyasagar, Steve Yurkovich

UT Dallas Affiliated Faculty: Farokh B. Bastani, Alain Bensoussan, Robert D. Gregg, Duncan L. MacFarlane, Suresh P. Sethi, Rajiv Shah, Mark W. Spong, Lakshman Tamil, W. Eric Wong

Lecturers: Rowena Eberhardt, Alixandre Minden

Objectives

Systems engineering is an interdisciplinary field of systems engineering, focusing on the design, modeling, interconnection, and management of large complex systems. In addition to the methods of traditional engineering, systems engineering relies on skills and expertise in areas such as optimization, simulation, economics and finance, risk management, and decision making under uncertainty. These skills come together to address the challenges of designing and managing complex interconnected systems, ranging from an automobile or an airplane to communication systems, financial markets, the power grid, and many more.

The Department of Systems Engineering at UT Dallas focuses research and curriculum in the fundamentals of systems engineering and management, with applications in interdisciplinary areas of interest to industry, such as energy systems, financial engineering systems, software systems, healthcare systems, cybersecurity systems, control and mechatronic systems, and others. In so doing, the Department of Systems Engineering offers an MS degree in Systems Engineering and Management (MS-SEM), a joint program with the UT Dallas Naveen Jindal School of Management. The program brings together faculty and disciplines from the engineering school and from the management school into a single program that has traditional and executive education formats.

Research

While many diverse areas of research and curriculum are represented by the core faculty and affiliated faculty in the Department of Systems Engineering, we identify with a few basic, core areas of concentration which combine graduate level research and curriculum:

- Control Systems and Mechatronic Systems
- Financial Engineering
- Energy Systems
Other curriculum-centric concentration areas, discussed below for the MS-SEM degree program, are also possible areas of research focus.

In keeping with the established tradition of research at UT Dallas, the Systems Engineering Department through its research efforts and its MS-SEM degree program, encourages students to interact with researchers in other strong programs in the Erik Jonsson School of Engineering and Computer Science and the Naveen Jindal School of Management, including computer science, electrical engineering, mechanical engineering, bioengineering, computer engineering, operations management, finance, marketing, innovation and entrepreneurship, and business management.

Master of Science in Systems Engineering and Management (MS-SEM)

36 semester credit hours minimum

Admission Requirements

A student lacking undergraduate prerequisites for graduate courses must complete prerequisites or receive approval from the graduate advisor and the course instructor. A diagnostic examination may be required. Please consult with the university's general admission requirements, discussed in the graduate catalog, whereas specific admission requirements for the MS-SEM follow.

A student entering the MS-SEM program should meet the following guidelines:

- A minimum of a BS in engineering, mathematics, physics, chemistry, economics or finance from an accredited program (specifically, programs that provide adequate fundamental skills in mathematics).
- Must submit GRE and/or GMAT scores as appropriate.
- Must submit three letters of recommendation from individuals who are able to judge the candidate's probability of success in pursuing a program of study leading to the MS-SEM degree.
- Must also submit an essay outlining the candidate's background, education, and professional goals.

Degree Requirements

The MS-SEM program is designed to be flexible to accommodate different student backgrounds, allowing students to pick up areas in which they are deficient, while still guaranteeing core competency in systems engineering and systems management. This program has both a thesis and a non-thesis option. All part-time MS-SEM students will be assigned initially to the non-thesis option. Those wishing to elect the thesis option may do so by obtaining the approval of a faculty thesis supervisor.

The MS-SEM degree requires a total of 36 semester credit hours consisting of 12 courses in the non-thesis option or 10 courses plus six semester credit hours of thesis credit for the thesis option. All students must have an academic advisor and an approved degree plan. Courses taken without advisor approval will not count toward the 36 semester credit hour requirement. Successful completion of the approved course of studies leads to the MS-SEM degree. Please also note that the university's general degree requirements are discussed elsewhere in the graduate catalog.

Non-Thesis Option
Completion of a minimum of 36 semester credit hours of graduate level lecture courses including the required core courses. With advisor approval, these may include some 5000 level courses. Students must earn a grade of B- or better in each of four core courses ([see Course Requirements](#)).

**Thesis Option**

An alternative to 36 semester credit hours required for the MS-SEM degree, would be the completion of a minimum of 30 semester credit hours of graduate level lecture courses, with a grade of B- or better in each of the required core courses ([see Course Requirements](#)), six semester credit hours of a combination of master’s research (SYSM 6V70) and thesis (SYSM 6V90), submitted to the graduate school, and a formal public defense of the thesis.

Students enrolled in the thesis option should meet with individual faculty members to discuss research opportunities and to choose a research advisor during the first or second semester that the student is enrolled. After the second semester of study, course selection should be made in consultation with the research advisor. Part-time students are encouraged to enroll in only one course during their first semester and in no more than two courses during any semester they are also working full-time.

Research and thesis semester credit hours cannot be counted in an MS-SEM degree plan unless a thesis is written and successfully defended. A supervising committee, which must be chosen in consultation with the student’s thesis advisor prior to enrolling for thesis credit, administers the defense. With advisor approval, the lecture courses may include some 5000 level courses. Full-time students at UT Dallas who receive financial assistance are required to enroll in nine semester credit hours each semester.

**Course Requirements**

**Core Courses: 12 semester credit hours**

Students are required to take four courses (a total of 12 semester credit hours) from a set of eight courses from the lists below. Two of the courses must be from the Engineering Core section and two from the Management Core section. The four required courses contribute a total of 12 semester credit hours toward the MS degree.

**Engineering Core Courses**

- **SYSM 6301** Systems Engineering, Architecture and Design
- **SYSM 6302** Dynamics of Complex Networks and Systems
- **SYSM 6303** Quantitative Introduction to Risk and Uncertainty in Business
- **SYSM 6305** Optimization Theory and Practice

**Management Core Courses**

- **SYSM 6311** Systems Project Management in Engineering and Operations
- **SYSM 6312** Systems Financial Management
- **SYSM 6318** Marketing Management
- **SYSM 6333** Systems Organizational Behavior
Prescribed Electives: 12 semester credit hours

Students are required to take an additional four courses (a total of 12 semester credit hours) from the set of eight core courses listed above and/or the set of courses listed below. Two of these courses must be chosen from the two Engineering sections (core and elective), and two from the two Management sections (core and elective). Because a program objective is to maintain a high degree of flexibility, students are encouraged to work with an MS-SEM program advisor to discuss possible (limited) exceptions and substitutions for the prescribed elective courses.

Engineering Elective Courses

- **SYSM 6304** Risk and Decision Analysis
- **SYSM 6306** Engineering Systems: Modeling and Simulation
- **SYSM 6307** Linear Systems
- **SYSM 6308** Software Maintenance, Evolution, and Re-Engineering
- **SYSM 6309** Advanced Requirements Engineering
- **SYSM 6310** Software Testing, Validation and Verification
- **SYSM 6321** Financial Engineering I
- **SYSM 6325** Requirements Development and Integration for Complex Systems

Management Elective Courses

- **SYSM 6313** Systems Negotiation Deals and Dispute Resolution
- **SYSM 6315** The Entrepreneurial Experience
- **SYSM 6316** Managing Innovation Within the Corporation
- **SYSM 6317** The Management of High Tech Products
- **SYSM 6319** Business Economics
- **SYSM 6320** Strategic Leadership
- **SYSM 6332** Technology and New Product Development
- **SYSM 6334** Systems Operations Management
- **SYSM 7321** Financial Engineering II
- **SYSM 6314** Manufacturing and Service Systems Planning and Analysis
- **SYSM 6333**

Free Electives: 12 semester credit hours

Working with an MS-SEM program advisor, students are required to take four additional and distinct courses either from the remaining SYSM courses listed above or from other courses offered in management or engineering that form a "concentration" or "specialization" in systems-related, possibly industry-specific sectors.

The concentration area consists of four courses (12 semester credit hours) in the degree program; examples include: Mechatronic and Control Systems, Financial Engineering Systems, Energy Systems, Healthcare Systems, Telecom and IT Networks, Information Assurance and Cybersecurity, Global Supply Chain Management, Entrepreneurship and Innovation, and Enterprise Systems.

Finally, because of the flexible nature of the MS-SEM degree program, students may submit for approval a "personalized" concentration area that focuses on aspects of systems engineering, and
may combine elements of other concentration areas on a focused theme.

Systems Engineering and Management (MS-SEM) Courses

Engineering Courses

SYSM 6301 Systems Engineering, Architecture and Design
SYSM 6302 Dynamics of Complex Networks and Systems
SYSM 6303 (OPRE 6301) Quantitative Introduction to Risk and Uncertainty in Business
SYSM 6304 (OPRE 6335) Risk and Decision Analysis
SYSM 6305 Optimization Theory and Practice
SYSM 6306 (BMEN 6372, MECH 6314) Engineering Systems: Modeling and Simulation
SYSM 6307 (EECS 6331, MECH 6300) Linear Systems
SYSM 6308 (CS 6356, SE 6356) Software Maintenance, Evolution, and Re-Engineering
SYSM 6309 (SE 6361, CS 6361) Advanced Requirements Engineering
SYSM 6310 (SE 6367, CE 6367, CS 6367) Software Testing, Validation and Verification
SYSM 6321 Financial Engineering I
SYSM 6325 Requirements Development and Integration for Complex Systems
SYSM 6V70 Research In Systems Engineering and Management
SYSM 6V80 Special Topics in Systems Engineering and Management
SYSM 6V90 Thesis

Management Courses

SYSM 6311 (OPRE 6362) Systems Project Management in Engineering and Operations
SYSM 6312 (FIN 6301) Systems Financial Management
SYSM 6313 (OB 6332) Systems Negotiation and Dispute Resolution
SYSM 6315 (ENTP 6398) The Entrepreneurial Experience
SYSM 6316 (ENTP 6388) Managing Innovation within the Corporation
SYSM 6317 (OPRE 6395) The Management of High Tech Products
SYSM 6318 (MKT 6301) Marketing Management
SYSM 6319 (MECO 6303) Business Economics
SYSM 6320 (BPS 6332) Strategic Leadership
SYSM 6332 (ENTP 6375, OPRE 6394) Technology and New Product Development
SYSM 6333 (OB 6301) Systems Organizational Behavior
SYSM 6334 Systems Operations Management

Comment [MJ1]: A suggestion only – we could omit the cross-listing courses so we do not have to update them in the future.
Certificate Program

The volume and sophistication of cybersecurity threats point to a critical demand for research and education in the general area of cybersecurity, which is highly interdisciplinary by nature. Elements form computer science, systems engineering, and information technology management form the basis for systems-related technologies to secure typical vulnerabilities. In addressing this growing critical demand, the Certificate in Cybersecurity Systems (CCSS) offered at UT Dallas provides a joint program between the Erik Jonsson School of Engineering and Computer Science (engineering and computer science) and Jindall School of Management (internal audit and information technology management), with a natural home in the Department of Systems Engineering (SYSE).

Graduate Certificate in Cybersecurity Systems

12 semester credit hours

The CCSS requires 12 semester credit hours, and may be combined with other courses and/or certificates toward an MS degree, such as Computer Science, Information Technology and Management, or Systems Engineering and Management, provided that the student has gained admission into that particular program.

To earn the certificate, students in the program must take four courses with an overall GPA of 3.0.

Required Course (3 semester credit hours)

MIS 6311 Cybersecurity Fundamentals

Track #1: Computer Science (CS) Emphasis (9 semester credit hours)

Students can choose three courses from the following:

CS 6324 Information Security
CS 6349 Network Security
CS 6348 Data and Applications Security

Or a course from a list of existing cybersecurity systems in Computer Science courses (offered periodically, and must be approved)

Track #2: Internal Audit, Information Management (IA/IM) Emphasis (9 semester credit hours)
Students must take MIS 6330 and ACCT 6336, and choose between ACCT 6380 or MIS 6363:
- MIS 6330 Information Technology Security
- ACCT 6336 Information Technology Audit and Risk Management
- ACCT 6380 Internal Audit or MIS 6363 Cloud Computing

Track #3: Systems Engineering and Management Emphasis (9 semester credit hours)

Students must take SYSM 6301, and choose between CS 6324 or MIS 6330:
- SYSM 6301 Systems Engineering, Architecture and Design
- CS 6324 Information Security or MIS 6330 Information Technology Security

Students can choose at least one course from each of the CS and IA/IM tracks from the following:

- CS 6348 Data and Applications Security (CS track)
- CS 6349 Network Security (CS track)
- MIS 6363 Cloud Computing (CS track)
- ACCT 6336 Information Technology Audit and Risk Management (IA/IM track)
- ACCT 6380 Internal Audit (IA/IM track)
Erik Jonsson School of Engineering & Computer Science

Graduate Program in Telecommunications Engineering

Program Faculty

Professor Emeritus: William J. Pervin

Associate Professors: Jorge A. Cobb, Neeraj Mittal, Kamil Sarac

Senior Lecturers: Charles (Pete) Bernardin, Nathan B. Dodge, P. K. Rajasekaran, Marco Tacca

Objectives
The Graduate Program in Telecommunications Engineering (TE) provides intensive preparation for professional practice in the design, programming, theory, and applications of telecommunications networks. It is designed to serve the needs of engineers who wish to continue their education. The Telecommunications Engineering Program offers courses of study leading to the MS and a PhD degree in Telecommunications Engineering. Education and training is provided to both academically oriented students and students with professional goals in industrial or governmental occupations requiring advanced knowledge of telecommunications and related technology. A comprehensive program of evening courses is also offered, which enables part-time students to earn the MS and PhD degree or to select individual courses of interest. Courses and research are both offered in a variety of subfields of telecommunications engineering, including, fault-tolerant networks, digital communications, modulation and coding, electromagnetic-wave propagation, fiber and integrated optics, lasers, wireless communications, mobile computing, wireless multimedia, DWDM networks, QoS assurance protocols, network design and optimization, telecommunications software, performance of systems, ad-hoc and PCS wireless networks, network security and high speed transmission protocols.

Facilities
The Erik Jonsson School of Engineering and Computer Science has developed a state-of-the-art computational facility consisting of a network of Sun servers and Sun Engineering Workstations. All systems are connected via an extensive fiber-optic Ethernet, and through the Texas Higher Education Network, have direct access to most major national and international networks. In addition, many personal computers are
The Engineering and Computer Science Building provides extensive facilities for research in telecommunications, microelectronics, and computer science. The TARGET Laboratory has state-of-the-art telecommunications equipment, which includes a number of transport nodes, data packet routers, voice over IP gears, and a cluster of Linux workstations for protocols development and testing. The Wireless Information Systems (WISLAB) and Antenna Measurement Laboratories at UT Dallas have a wealth of experimental equipment with a unique reconfigurable multiple antenna testbed. Having this testbed allows wireless researchers to integrate and to demonstrate radio functions (i.e. WiFi and WiMAX) in geographically different regions under different frequency usage characteristics. With the aid of the Antenna Measurement Lab located in the Waterview Science and Technology Center (WSTC), the researchers can design, build, and test many type of antennas. The Optical Communications Laboratory includes attenuators, optical power meters, lasers, APD/p-i-n photodetectors, optical tables, and couplers and is available to support system level research in optical communications.

The Center for Systems, Communications, and Signal Processing, with the purpose of promoting research and education in general communications, signal processing, control systems, medical and biological systems, circuits and systems and related software, is located in the Erik Jonsson School. The Photonic Technology and Engineering Center (PhoTEC) has produced more than thirty PhD graduates. The PhoTEC faculty carry out research in enabling technologies for microelectronics and telecommunications.

The Digital Systems Laboratory includes a network of workstations, personal computers, FPGA development systems, and a wide spectrum of state-of-the-art commercial and academic design tools to support graduate research in VLSI design and computer architecture. In the Digital Signal Processing Laboratory several multi-CPU workstations are available in a network configuration for simulation experiments. Hardware development facilities for real time experimental systems are available and include microphone arrays, active noise controllers, speech compressors and echo cancellers. The Nonlinear Optics Laboratory has a dedicated network of Sun workstations for the development of simulation methods and software for optical transmission and communication systems, optical routers and all-optical networks. The Broadband Communication Laboratory has design and modeling tools for fiber and wireless transmission systems and networks, and all-optical packet routing and switching. The Advanced Communications Technologies (ACT) Laboratory provides a design and evaluation environment for the study of telecommunication systems and wireless and optical networks. ACT has facilities for designing network hardware, software, components, and applications.

In addition to the aforementioned facilities, a Class 1000 microelectronics clean room facility, including optical lithography, sputter deposition and evaporation, is available for student projects and research. An electron beam lithography pattern generator capable of sub-micron resolution is also available for microelectronics research. The Plasma Applications Laboratory has state-of-the-art facilities for mass spectrometry, microwave interferometry, optical spectroscopy, and optical detection. In addition, a Gaseous Electronics Conference Reference Reactor has been installed for plasma processing and particulate generation studies. The Optical Measurements Laboratory has dual wavelength (visible and near infrared) Gaertner Ellipsometer for optical inspection of material systems, a variety of interferometric configurations, high precision positioning devices, and supporting optical and electrical components. The Electronic Materials Processing Laboratory has extensive facilities for fabricating and characterizing semiconductor and optical devices. The Laser Electronics Laboratory houses graduate research projects centered on the characterization, development and application of ultrafast dye and diode lasers. Research in characterization and fabrication of nanoscale materials and devices is performed in the Nanoelectronics Laboratory.

In addition to the facilities on campus, cooperative arrangements have been established with many local industries to make their facilities available to UT Dallas graduate engineering students.
Master of Science in Telecommunications Engineering

33 semester credit hours minimum

Admission Requirements

The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

A student lacking undergraduate prerequisites for graduate courses in electrical engineering must complete these prerequisites or receive approval from the graduate advisor and the course instructor. A diagnostic examination may be required. Specific admission requirements follow.

A student entering the MSTE program should meet the following guidelines:

- An undergraduate preparation equivalent to a baccalaureate in electrical engineering from an accredited engineering program,
- A grade point average (GPA) in upper-division quantitative coursework of 3.0 or better on a 4.0 point scale, and
- GRE revised scores of 154, 156, and 4 for the verbal, quantitative and analytical writing components, respectively, are advisable based on our experience with student success in the program.

Applicants must submit three letters of recommendation from individuals who are able to judge the candidate’s probability of success in pursuing a program of study leading to the master's degree.

Applicants must also submit an essay outlining the candidate's background, education, and professional goals.

Students from other engineering disciplines or from other areas of science or mathematics may be considered for admission to the program; however, some additional coursework may be necessary before starting the master's program.

Degree Requirements

The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

The MSTE degree requires a minimum of 33 semester credit hours.

All students must have an academic advisor and an approved degree plan. Courses taken without advisor approval will not count toward the 33 semester credit hour requirement. Successful completion of the approved course of studies leads to the MSTE degree.

The MSTE program has both a thesis and a non-thesis option. All part-time MSTE students will be assigned initially to the non-thesis option. Those wishing to elect the thesis option may do so by obtaining the approval of a faculty thesis supervisor.

All full-time, supported students are required to participate in the thesis option. The thesis option requires six
semester credit hours of research, a written thesis submitted to the graduate school, and a formal public defense of the thesis. Research and thesis semester credit hours cannot be counted in a MSTE degree plan unless a thesis is written and successfully defended. A supervising committee, which must be chosen in consultation with the student's thesis advisor prior to enrolling for thesis credit, administers the defense. Full-time students at UT Dallas who receive financial assistance are required to enroll in 9 semester credit hours during the fall, spring and summer semesters. Students enrolled in the thesis option should meet with individual faculty members to discuss research opportunities and to choose a research advisor during the first or second semester that the student is enrolled. After the second semester of study, course selection should be made in consultation with the research advisor. Part-time students are encouraged to enroll in only one course during their first semester and in no more than two courses during any semester they are also working full-time.

To receive a Master of Science degree in Telecommunications Engineering, a student must meet the following minimum set of requirements:

Completion of a minimum of 33 semester credit hours of graduate level lecture courses including the required core courses. With advisor approval, these may include some 5000 level courses.

Course Requirements

Required Core Courses: 15 semester credit hours

Students must take the following five core courses and make a grade of B or better:

- CS 6385 (TE 6385) Algorithmic Aspects of Telecommunication Networks
- EESC 6349 Random Processes
- EESC 6352 Digital Communication Systems
- CS 6352 Performance of Computer Systems and Networks
- CS 6390 Advanced Computer Networks

Recommended Elective Courses: 18 semester credit hours

Students will take additional courses from those described in the following lists. Choose any 18 semester credit hours of 6000 level courses or higher with approval of the advisor.

Recommended Electrical Engineering Electives

- EEDG 6345 Engineering of Packet-Switched Networks
- EEGR 6316 Fields and Waves
- EEOP 6310 Optical Communication Systems
- EEOP 7340 Optical Network Architectures and Protocols
- EERF 6311 RF and Microwave Circuits
- EERF 6394 Antenna Engineering and Wave Propagation
- EERF 6395 RF and Microwave Systems Engineering
- EESC 6340 Introduction to Telecommunications Networks
Doctor of Philosophy in Telecommunications Engineering

75 semester credit hours minimum beyond the baccalaureate degree

Each doctoral degree program is tailored to the student. The student must arrange a course program with the guidance and approval of a faculty member chosen as his/her graduate advisor. Adjustments can be made as the student's interests develop and a specific dissertation topic is chosen.

Admission Requirements

The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

The PhD degree in Telecommunications Engineering (TE) is awarded primarily to acknowledge the student's success in an original research project, the description of which is a significant contribution to the literature of the discipline. Applications for the doctoral program are therefore selected by the
Telecommunications Engineering Graduate Committee on the basis of research aptitude, as well as academic record. Applications for the doctoral program are considered on the individual basis.

The following are guidelines for admission to the PhD program in Telecommunications Engineering.

A master's degree in Telecommunications Engineering, or Electrical Engineering or Computer Science or a closely associated discipline from an institution of higher education in the U.S. or from an acceptable foreign university. Consideration will be given to highly qualified students wishing to pursue the doctorate without satisfying all of the requirements for a master's degree.

- A grade point average (GPA) in graduate coursework of 3.5 or better on a 4.0 point scale.
- GRE revised scores of 154, 156, and 4 for the verbal, quantitative and analytical writing components, respectively, are advisable based on our experience with student success in the program.
- Applicants must submit three letters of recommendation on official school or business letterhead or the UT Dallas Letter of Recommendation form from individuals who are familiar with the student record and able to judge the candidate's probability of success in pursuing doctoral study in electrical engineering.

Applicants must also submit a narrative describing their motivation for doctoral study in telecommunications engineering and how it relates to their professional goals.

For students who are interested in a PhD, but are unable to attend school full-time, there is a part-time option. The guidelines for admission to the program and the degree requirements are the same as for full-time PhD, students. All students must have an academic advisor and an approved plan of study.

Degree Requirements

The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

The program will require a minimum of 75 semester credit hours beyond the baccalaureate degree. These credits must include at least 30 semester credit hours of graduate level courses beyond the baccalaureate level in the major concentration. The core requirements for the PhD degree in Telecommunications Engineering are the same as the ones for the MS in Telecommunications Engineering. All PhD students must demonstrate competence in the master's level core courses in their research area. However, a student's supervising committee may impose course requirements that are necessary and appropriate for the student's research program. It is expected that MS degree students planning to enter the proposed doctoral program will take most of the courses as part of their MS degree requirements. All students must have an academic advisor and an approved plan of study.

Also required are:

- A qualifying examination (QE), as approved by the TE graduate committee, demonstrating competence in the PhD candidate's research area. A student entering the PhD program with a MSTE must pass this exam within 3 long semesters, and a student entering without an MSTE must pass this exam within 4 long semesters. A student has at most two attempts at this qualifying exam. The exam will be given during the fall and spring semesters.
- A comprehensive exam consisting of: a written dissertation proposal, a public seminar, and a private oral examination conducted by the PhD candidate's supervising committee.
- Completion of a major research project culminating in a dissertation demonstrating an original contribution to scientific knowledge and engineering practice. The dissertation will be defended publicly.
The rules for this defense are specified by the Office of the Dean of Graduate Studies. Neither a foreign language nor a minor is required for the PhD. However, the student's supervising committee may impose these or other requirements that it feels are necessary and appropriate to the student's degree program.

**Dissertation**

A dissertation is required and must be approved by the graduate program. A student must arrange for a dissertation advisor willing to guide this dissertation. The student must have a dissertation supervising committee that consists of no less than four members. The dissertation may be in telecommunication engineering exclusively or it may involve considerable work in an area of application.

**Areas of Research**

The principal concentration areas for the Telecommunications Engineering graduate program are:

- Core and wireless networks
- Communications and signal processing
- Network design and protocols
- Embedded and reconfigurable systems
- Optical and photonic devices, materials and systems
- Fault-tolerant data networks

Doctoral level research opportunities include: VLSI design, reconfigurable systems, system architecture, fault-tolerant computing, digital signal processing, digital communications, modulation and coding, electromagnetic-wave propagation, fiber and integrated optics, lasers and optoelectronic devices, optical transmission systems, optical networks, wireless communications, mobile IP, wireless multimedia, DWDM networks, QoS assurance protocols, network design and optimization, ad-hoc and PCS wireless networks, network security and high speed transmission protocols.

**Interdisciplinary Opportunities**

In keeping with the established tradition of research at UT Dallas, the Telecommunications Engineering Program encourages students to interact with researchers in other strong programs, including computer science, electrical engineering, computer engineering, and business management.
Erik Jonsson School of Engineering & Computer Science

Combination of Engineering and Management
Graduate Degrees

Today's graduates aspiring to assume managerial and leadership positions in high tech firms and research institutions must be knowledgeable in both the engineering and managerial dimensions of the position. In recognition of this growing reality, UT Dallas offers a blend of courses allowing students to earn a combination of master's level degrees in both engineering and management. Specifically, graduates of this program will qualify to earn a MSEE degree in combination with a M.A or a degree in Management.

Faculty

The combination of master's level degrees in both engineering and management are jointly administered by the faculty members in the Department of Electrical Engineering in the Erik Jonsson School of Engineering and Computer Science and the Naveen Jindal School of Management.

Objectives

The program of studies leading to the award of a MSEE degree by the Erik Jonsson School of Engineering and Computer Science in combination with one of the following master's degrees, M.A or MS, offered by the Naveen Jindal School of Management, provides intensive preparation for engineers who seek knowledge and skills necessary to manage a technology firm. This program emphasizes both Electrical Engineering and Engineering Management, preparing students for a career in management and for holding leadership positions in engineering companies and research institutions. The program of studies is ideal for students interested in managing new technologies, from conceptualization and development to introduction and production.

Admission and Degree Requirements

The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission). Students pursuing the MSEE degree in combination with a master's degree in management must meet the admission requirements for both graduate programs. The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy). For this program, the Jindal School of Management will accept a competitive GRE performance in lieu of the GMAT.
Combination of MSEE and MBA graduate degrees

68 semester credit hours minimum

The combination of MSEE and MBA degrees can be earned by completing a minimum of 68 graduate semester credit hours beyond prerequisite courses. This includes a minimum of 24 semester credit hours of approved electrical engineering (EE) courses in combination with a minimum of 44 semester credit hours of approved management courses.

Students enrolled in this combination of MSEE and MBA degree programs are permitted to:

- Utilize a maximum of 9 semester credit hours from the approved list of management courses together with 12 semester credit hours of approved elective EE courses to satisfy the required 21 semester credit hours of elective courses listed in the MSEE degree requirements, and
- Utilize a maximum of 9 semester credit hours from the approved list of EE courses together with 15 semester credit hours of approved elective MBA courses to satisfy the 24 semester credit hours of elective courses listed in the MBA degree requirements.

Students are required to meet all other core and elective requirements for the MSEE and MBA degrees to obtain the combination of the MSEE with MBA graduate degrees.

Combination of MSEE with MS graduate degrees

51 minimum semester credit hours

The combination of MSEE and MS degrees can be earned by completing a minimum of 51 semester credit hours beyond prerequisites. This includes a minimum of 24 semester credit hours of approved electrical engineering courses in combination with a minimum of 27 semester credit hours of approved management courses for each of these management degrees.

Students enrolled in a combination of the MSEE and MS degree programs are permitted to:

- Utilize a maximum of 9 semester credit hours from the approved list of management courses together with 12 semester credit hours of approved elective EE courses to satisfy the required 21 semester credit hours of elective courses listed in the MSEE degree requirements, and
- Utilize a maximum of 9 semester credit hours from the approved list of EE courses in satisfying elective courses requirements for the MS degree requirements.

Students are required to meet all other core and elective requirements for the MSEE and MS degrees to obtain the combination of MSEE with MS graduate degrees.

All students must have a graduate advisor in the Department of Electrical Engineering in the Erik Jonsson School of Engineering and Computer Science and a graduate advisor in the Naveen Jindal School of Management who will advise on respective programs and approve a degree plan. The advising office in each school will provide a detailed listing of approved courses. Courses taken without advisor approval may not count toward the required semester credit hours. No degree will be awarded until the completion of all requirements, including the requirement for the 68 or 51 semester credit hours for the MSEE/MBA or MSEE/MS or combinations respectively.

If a student chooses at a later time to pursue only one of the two degree programs, the student MUST again seek
admission into the degree program of the student’s choice and satisfy the requirements of that degree program. Prior coursework relevant to the specific degree program will be transferred, provided the course requirements have not changed.
Erik Jonsson School of Engineering and Computer Science

Doctor of Philosophy in Geospatial Information Sciences

75 semester credit hours minimum beyond the baccalaureate degree

Faculty

Professors: Carlos L. V. Aiken, Brian J. L. Berry, Denis J. Dean, John F. Ferguson, Daniel A. Griffith, Fang Qiu, Hsing-Mean (Edwin) Sha, Robert J. Stern, Weili Wu, May Yuan

Associate Professors: Thomas H. Brikowski, Dohyeong Kim, David Lary, Michael Tiefelsdorf

Assistant Professors: Yongwan Chun, Anthony R. Cummings

Senior Lecturers: Bryan Chastain, Irina Vakulenko

Mission

The mission of the Doctor of Philosophy in Geographic Information Sciences program is to cultivate innovative researchers capable of advancing the frontiers of knowledge in the geospatial information sciences through improved theories, new technologies, innovative methodologies, sophisticated quantitative analyses, and integrative applications. Specifically, program graduates will:

- Demonstrate their knowledge of the fundamental theories and concepts underlying the geospatial sciences.
- Master the advanced methodologies and/or quantitative analyses used in at least one of three geospatial specialization areas: (a) computing and information management, (b) spatial analysis and modeling, or (c) remote sensing and satellite technologies.
- Produce innovative research that advances theory or methodology in the geospatial sciences.
- Participate at academic conferences, publish in peer-reviewed journals, and find employment in research departments of public and private organizations and in major academic institutions.

Objectives

This degree program is jointly offered by the School of Economic, Political and Policy Sciences, the School of Natural Sciences and Mathematics (specifically in the Department of Geosciences) and the Erik Jonsson
School of Engineering and Computer Science, and is administered by the School of Economic, Political and Policy Sciences. This unique structure reflects geospatial information science's origins as the confluence of multiple disciplines including geography, computer science, engineering, geology, and various social, policy and applied sciences. It is anticipated that many students will enter the program with a bachelor's or master's degree (and/or work experience) in an application area (such as public administration, geology, or economics) or in a technical specialization (such as engineering, computer science, or statistics). These students may choose to pursue research projects that advance existing geospatial information sciences practices within that application area. Alternatively, students may opt to pursue research that expands the technological or theoretical base of all the geospatial information sciences.

Powerful technologies have emerged in recent years to collect, store, manage, analyze, and communicate information regarding the features of the Earth's surface and to combine these with other types of environmental, social, and economic information. These technologies, which include geographic information systems (GIS), the global positioning system (GPS), and remote sensing, are used in many ways, including the production of digital maps in vehicles, the management and maintenance of city infrastructure, agriculture and forestry, the policing of communities, and the conduct of modern warfare. The PhD in Geospatial Information Sciences aims to develop individuals capable of advancing this field by developing new knowledge or capabilities relevant to it.

Facilities

Students have access to state-of-the-art GIS computing facilities housed in the School of Economic, Political and Policy Sciences and at the NASA Center for Excellence in Remote Sensing in the Department of Geosciences. The University's extensive instructional computing facilities, including those in the Erik Jonsson School of Engineering and Computer Science, are also available. Facilities are open extended hours including evenings and weekends. Enrollment in hands-on courses is controlled to ensure that a computer workstation is available for every student. All major industry-standard GIS and remote sensing software is available. The University is a member of the University Consortium for Geographic Information Science (UCGIS).

Admission Requirements

The University's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

The PhD program in Geospatial Information Sciences seeks applications from students with a baccalaureate, Master of Arts, Master of Science, or professional master's level degree in any field relevant to geospatial information science including, but not limited to, computer science, economics, engineering, geography, geology, management information systems, marketing, natural resource management, public affairs and public administration, statistics, and urban and regional planning.

Applicants will be judged and evaluated by the existing admission standards as set forth by the University in its Graduate Catalog and by the standards set forth here by the Geospatial Information Sciences program. A bachelor's degree from an accredited institution of higher education or its equivalent and fluency in written and spoken English are required. A grade average of at least 3.25 in undergraduate and graduate course work, and a combined verbal and quantitative score of 300 on the GRE are desirable. An analytical writing score of at least 4.5 in the GRE is considered desirable.

Applicants must submit transcripts from all higher education institutions attended, three letters of recommendation, and an essay outlining their background, education, and academic objectives as they
specifically relate to a PhD in Geospatial Information Sciences.

**Prerequisites**

The following prerequisites/corequisites will also be required for admission to the PhD program: (i) college mathematics through calculus, (ii) competence in at least one modern programming language equivalent to GISC 6317 GIS Programming Fundamentals, and (iii) at least one course in inferential statistics through to regression analysis equivalent to GISC 6301 GIS Data Analysis Fundamentals, EPPS 7313 Descriptive and Inferential Statistics, or GEOS 5306 Data Analysis for Geoscientists. Graduate courses taken at UT Dallas to meet these prerequisites may be counted as electives toward the 75 semester credit hours required of students entering the PhD program directly from a BA or BS degree, but they shall not be considered substitutes for any other specified course.

**Advising**

Because of the cross-disciplinary nature of this doctoral program, to ensure adequate preparation and appropriate course sequencing, every doctoral student is required to consult with the student’s designated advisor and/or the GIS Doctoral Program Director prior to registration in every semester. Students generally will not have a faculty advisor when they first enter the PhD program, but every student is required to select (with consent of the potential advisor) an advisor from the advising faculty by the end of his/her first academic year.

**Degree Requirements**

The University's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

To receive the PhD in Geospatial Information Sciences, students must complete the Geospatial Science Core (15 semester credit hours) to achieve a mastery of appropriate Geospatial Information Science technologies and theory, have Prescribed Specialization Electives (15 semester credit hours), have a Specific Application area or Technical field (12 semester credit hours), evidence research skills through successful completion and defense of a PhD dissertation, and take related electives as necessary for a total of 75 semester credit hours. A maximum of 6 semester credit hours can be taken at the 5000 level and the rest of them should be at the 6000 level or above. In addition, students must satisfy a set of exams and qualifiers. Other courses may be substituted for those listed below with the written permission in advance of the Director of the GIS Doctoral program.

**Geospatial Science Core: 15 semester credit hours**

Students must earn a minimum grade point average (GPA) of 3.0 across the following five courses:

- GISC 6381 (GEOS 6381) Geographic Information Systems Fundamentals¹
- GISC 6325 (GEOS 5325) Remote Sensing Fundamentals
- GISC 6384 (GEOS 6384) Advanced Geographic Information Systems
- GISC 6385 (GEOS 6385) GIS Theories, Models and Issues
- GISC 7310 Advanced GIS Data Analysis
Prescribed **Specialization** Electives: 15 semester credit hours

Students may select any five courses from the following:

I. Geospatial Computing and Information Management
   - **CS 6359** Object-Oriented Analysis and Design
   - **CS 6360** Database Design
   - **CS 6364** Artificial Intelligence
   - **CS 6366** Computer Graphics
   - **CS 6375** Machine Learning
   - **CS 6384** Computer Vision
   - **GISC 6317** GIS Programming Fundamentals
   - **GISC 6388** Advanced GIS Programming
   - **GISC 7363** Internet Mapping and Information Processing
   - **MIS 6320** Database Foundations
   - **MIS 6324** Business Intelligence Software and Techniques
     - **MIS 6360** Agile Project Management
     - **MIS 6326** Data Management

II. Spatial Analysis and Modeling
   - **ECON 6309** Econometrics I
   - **ECON 7309** Econometrics II
   - **EPPS 7318** Structural Equation and Multilevel (Hierarchical) Modeling
     - **EPPS 7370** Time Series Analysis I
   - **ECON 6316** Spatial Econometrics
   - **GISC 7364** Demographic and Epidemiological Analysis and Modeling
   - **GEOS 5306** Data Analysis for Geoscientists
   - **GISC 6311** Statistics for Geospatial Science
   - **GISC 6331 (CRIM 6322)** GIS Applications in Criminology
   - **GISC 6334 (PPPE 6334)** Workshop in Environmental and Health GIS/Policy
   - **GISC 6382 (GEOS 6383)** Applied Geographic Information Systems
   - **GISC 7360** GIS Pattern Analysis
   - **GISC 7361** Spatial Statistics
   - **EPPS 7313** Descriptive and Inferential Statistics
   - **EPPS 7316** Regression and Multivariate Analysis

III. Remote Sensing and Satellite Technologies

**Deleted:** Specialization

**Comment [DDC1]:** Title updated in 2015 catalog

**Deleted:** Software

**Comment [DDC2]:** Title updated in 2015 catalog
Application Area or Technical Field (12 semester credit hours)

Twelve semester credit hours of specialized course work in an application area or technical field relevant to GIScience. Normally, these will derive from the student’s master’s degree. These semester credit hours may be transferred from another institution, or taken at UT Dallas in an existing master’s program area and may be applied toward a master’s degree in that area.

Application area examples: planning, public affairs, criminal justice, health and epidemiology, geoscience, forestry, hydrology, marketing, real estate, economics, civil engineering, etc.

Technical field examples: statistics, computer science, software engineering, management information systems, image analysis, operations research/location science, instrumentation.

Research and Dissertation (variable semester credit hours)

All students must complete the following class as part of the research and dissertation requirement:

- **GISC 7387** GIS Research Design

In addition, students must complete sufficient additional research and dissertation semester credit hours to bring the total number of semester credit hours they have earned within the UT Dallas doctoral program (or transferred into the UT Dallas doctoral program) to 75 semester credit hours, the minimum required to earn a doctoral degree. Additional research and dissertation semester credit hours above and beyond those required to reach the 75 semester credit hours minimum may be required at the discretion of the student’s PhD advisor. Additional research and dissertation semester credit hours can be earned through any course from the following list:

- **GISC 6387** Geospatial Sciences Workshop
- **GISC 6388** Geospatial Information Sciences Master's Research
- **EPPS 6342** Research Design II
- **GISC 8320** Geospatial Sciences Seminar
Other Related Electives (0 to 24 semester credit hours)

Students may choose up to 24 semester credit hours in related electives (from CS, GEOS, GISC, etc.) with consent of their advisor or the GIS Doctoral Program Director.

Exams and Qualifiers

Qualifying Examination

The GISC PhD Qualifier Examination is administered in May of a full-time doctoral student's first year, following the completion of the first academic year (i.e. fall and spring semester) by the student. This exam comprises of four parts, each based upon one of the following core courses:

- GISC 6325 Remote Sensing Fundamentals
- GISC 6384 Advanced Geographic Information Systems
- GISC 6385 GIS Theories, Models and Issues
- GISC 7310 Advanced GIS Data Analysis

A student must pass three of the four parts to pass the exam. If a student fails his/her exam, s/he may retake only the parts they failed in the subsequent August. If s/he does not pass a cumulative total of three parts after the August exam date, then s/he fails the Qualifier Examination, and is withdrawn from the GIS doctoral program.

Defense of Proposal

After completing the GISC 7387 GIS Research Design class, doctoral students must successfully present and defend a dissertation proposal through an oral examination, according to uniform guidelines established by the GIS program.

Grade Point Qualifier

Doctoral students must have GPAs of at least 3.25, and preferably 3.5, in courses taken at UT Dallas at the time they register for GISC 7387 GIS Research Design, or they must petition the GIS faculty for an exemption for extenuating circumstances beyond the student's control.

Defense of Dissertation

A dissertation must be prepared and defended successfully following the procedures established by the Dean of Graduate Studies.

Note: Individuals experienced with GIS may have the introductory course (GISC 6381) waived at the
discretion of the Geospatial Information Sciences Program Head, but must take an additional course from the prescribed specialization elective courses listed above.

1. Individuals experienced with GIS may have the introductory course (GISC 6381) waived at the discretion of the Geospatial Information Sciences Program Head, but must take an additional course from the prescribed specialization elective courses listed in this program.
Erik Jonsson School of Engineering & Computer Science

Industrial Practice Programs

The Industrial Practice Programs (IP Programs or IPP) of the Erik Jonsson School of Engineering and Computer Science include the school's cooperative education, internship, and curricular practical training programs ([http://ecs.utdallas.edu/studentservices/ipp/index.html](http://ecs.utdallas.edu/studentservices/ipp/index.html)). These programs combine classroom learning with paid work experience. Qualified students are referred to participating employers seeking candidates for career-related, pre-professional, and work assignments. The programs enhance a student's education and career preparation by integrating classroom theory with on-the-job performance; providing an understanding of work environments and professional requirements; testing career and professional goals; developing confidence, maturity, and skills in human relations; and establishing professional contacts and interests.

Students enroll in Engineering Computer Science Co-op (ECSC) courses during semesters when working on an IPP assignment. Students are expected to follow the rules of the IP Programs when working in a position titled by the employer as an internship or a cooperative education assignment.

For more information about the IP Programs, call 972-883-4363. The IP Programs are located in ECSS 2.502.

Engineering and Computer Science Co-Op Courses

- **ECSC 5177** CS IPP Assignment
- **ECSC 5179** ENG IPP Assignment
School of Interdisciplinary Studies (GENS)
2015-16 Graduate Catalog

Degree Programs
School of Interdisciplinary Studies

The Graduate Program in Interdisciplinary Studies, leading to the degree of Master of Arts in Interdisciplinary Studies, is designed for students who wish to continue their intellectual development within an interdisciplinary framework and for those with specialized training who wish to broaden their education. The objective of the program is to provide students the opportunity to develop an approach to topics and problems from the perspectives of more than one discipline and to develop a better understanding of many of the social, cultural, and scientific forces which affect the individual and society.

Teacher Development Center

The university offers opportunities in selected fields for teachers and other school personnel to earn initial teaching certification and certificate endorsements.

Students wishing to pursue an advanced degree should consider programs leading to the Master of Arts in Teaching (MAT) degree in Science Education, or Mathematics Education. Students enrolling for one of these degrees should consult the appropriate subject area in this catalog. Students pursuing coursework leading to additional certificate endorsement or initial certification should seek counsel in the Teacher Development Center early in their program of study. Contact 972-883-2730 or go to www.utdallas.edu/teach.

Degrees Offered

- Master of Arts in Interdisciplinary Studies (36 semester credit hours minimum)

Faculty

All faculty in the university are eligible to participate.

Professors: George W. Fair, Karen J. Prager, Lawrence J. Redlinger

Associate Professor: Erin A. Smith

Professor in Practice: Seema Yasmin

Senior Lecturers: Kathleen Byrnes, Susan P. Chizeck, Dachang Cong, Jillian Duquaine-Watson, Jonathan Frome, Lynn W. Mabe, Elizabeth M. Salter, Tonja Wissinger

Objectives

The Graduate Program in Interdisciplinary Studies, leading to the degree of Master of Arts in Interdisciplinary Studies, is designed for students who wish to continue their intellectual development within an interdisciplinary
framework and for those with specialized training who wish to broaden their education. The objective of the program is to provide students the opportunity to develop an approach to topics and problems from the perspectives of more than one discipline and to develop a better understanding of many of the social, cultural, and scientific forces which affect the individual and society.

Admission Requirements

The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

For admission to the program, the student must have a bachelor's degree from an institution of higher education, with a grade average of B or better. A verbal plus quantitative GRE score of 295 (or equivalent examination) is advisable based on our experience with student success in the program. All students not meeting the above criteria are considered on an individual basis. A student who has a deficit in either GRE score or grade point average may be conditionally admitted to the program.

Degree Requirements

The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

For the degree of Master of Arts in Interdisciplinary Studies, 36 semester credit hours of course work must be completed. These semester credit hours are distributed as follows:

Interdisciplinary Seminars (3 semester credit hours)

In the first year the student must complete an interdisciplinary seminar, MAIS 5301, MAIS 5315, MAIS 5321, MAIS 5333, or MAIS 5335 or MAIS 5336. The seminars are designed to introduce students to graduate work and to give them experience in interdisciplinary approaches to subjects and problems.

Core Requirements (9 semester credit hours)

From the graduate courses offered in this catalog, the student selects, in consultation with the advisor, at least three semester credit hours each from at least two of the following areas: Humanities, which includes Aesthetic Studies, History of Ideas, and Studies in Literature; Natural Sciences and Mathematics, which includes courses in Biology, Chemistry, Geosciences, Mathematical Sciences, Physics, and selected courses in Science Education; Economic, Political and Policy Sciences, which includes courses in Public Affairs, Criminology, Economics, Geospatial Science, Public Policy and Political Economy, Political Science, and Sociology; Management, which includes Management and International Management Studies, Accounting, Information Technology, Innovation and Entrepreneurship, Management and Administrative Sciences, Finance and Healthcare Management.

Concentration (12 semester credit hours)

From the graduate courses offered in this catalog, the student selects, in consultation with the advisor, at least 12 additional semester credit hours of coursework in one or two of the general areas listed above.
Electives (6 semester credit hours)

From the graduate courses offered in this catalog, the student selects, in consultation with the advisor, at least six semester credit hours of courses.

Capstone Seminar and Research Project (6 semester credit hours)

The seminar and project are the culmination of the student's program. The seminar includes readings in, and discussion of, interdisciplinary theory and preparation for the research project. Each student will develop a research topic which lends itself to an interdisciplinary approach. The topic should be sufficiently broad to draw upon knowledge and techniques gained throughout the program. To complete the project, students should synthesize and integrate information from various sources, utilizing different methodologies, and thus draw conclusions which present a new perspective on the topic as a result of this interdisciplinary approach.

Graduate Program in Interdisciplinary Studies

At the beginning of the degree program each student participates in a specially designed interdisciplinary seminar on topics related to the development of human beings and their world. At the end of the program, each student participates in a capstone seminar and completes an interdisciplinary research project. The remainder of the program is individually designed by the student, in consultation with the advisor, to meet particular personal interests and professional needs.
School of Interdisciplinary Studies

Post-Baccalaureate Program for Teacher Certification

Faculty

Professor: George W. Fair

Post-Baccalaureate Program for Teacher Certification

Teacher Development Center: Persons who already have baccalaureate degrees may seek teacher certification in all fields. They should consult with an advisor in the Teacher Development Center to develop a certification plan after they have been admitted to the university through the School of Interdisciplinary Studies as a post-baccalaureate student. Post-baccalaureate students must meet the 24 semester credit hours requirement in the appropriate teaching field. A certification plan will be developed based on an evaluation of the student's transcript. Post-baccalaureate students must demonstrate computer literacy, effective public speaking, and complete 12 semester credit hours of English. All students must fulfill the UT Dallas requirements for student teaching or supervised internship.

See the Teacher Development Center website at [http://www.utdallas.edu/teach](http://www.utdallas.edu/teach) for the most current information and course requirements.

Updated: August 26, 2014 - Visitor: 142
The Naveen Jindal School of Management (JSOM) offers a range of degree options and program formats designed to serve the diverse needs of a student population primarily composed of working adults, but also including traditional full-time graduate students and, more recently, residential undergraduate students.

The graduate programs stress the theory and use of applied sciences for successful management and administration of private and public institutions. Courses provide an opportunity to gain integrated and detailed knowledge of the functional areas of management as well as analytical tools for effective appraisal and decision-making. Seminars and research on specific projects are designed to develop creativity and to stimulate the student toward an integrated application of the acquired knowledge.

The Naveen Jindal School of Management’s mission is to meet the challenges of a rapidly changing, technology-driven, global society by partnering with the business community to:

- deliver high quality management education to a diverse group of undergraduate and graduate students and practicing executives;
- develop and continuously improve programs advancing management education and practice; and,
- conduct world-class research enhancing cutting-edge management knowledge.

Since its inception,
Degrees Offered

- Master of Business Administration (53 semester credit hours minimum)
- Master of Science in Accounting (36 semester credit hours minimum)
- Master of Science in Business Analytics (36 semester credit hours minimum)
- Master of Science in Energy Management (36 semester credit hours minimum)
- Master of Science in Finance (36 semester credit hours minimum)
- Master of Science in Healthcare Management - Executive Track (36 semester credit hours minimum)
- Master of Science in Healthcare Management - Professional Track (36 semester credit hours minimum)
- Master of Science in Information Technology and Management (36 semester credit hours minimum)
- Master of Science in Innovation and Entrepreneurship (36 semester credit hours minimum)
- Master of Science in International Management Studies (36 semester credit hours minimum)
- Master of Science in Management and Administrative Sciences (36 semester credit hours minimum)
- Master of Science in Marketing (36 semester credit hours minimum)
- Master of Science in Supply Chain Management (36 semester credit hours minimum)
- Master of Science in Systems Engineering and Management (36 semester credit hours minimum)
- Doctor of Philosophy in International Management Studies (75 semester credit hours minimum beyond the baccalaureate degree)
- Doctor of Philosophy in Management Science (75 semester credit hours minimum beyond the baccalaureate degree)
- Executive Education Programs

Certificates Offered

- Graduate Certificate in Business Intelligence and Data Mining
- Graduate Certificate in Corporate Innovation
- Graduate Certificate in Enterprise Systems
- Graduate Certificate in Executive and Professional Coaching
- Graduate Certificate in Healthcare Information Technology
- Graduate Certificate in Lean Six Sigma (Yellow/Green) in Healthcare Quality
- Graduate Certificate in New Venture Entrepreneurship
- Graduate Certificate in Product Lifecycle and Supply Chain Management
- Graduate Certificate in Project Management
- Graduate Certificate in Systems Engineering
- Graduate Certificate in Systems Management
- ...
Faculty


**Professor Emeritus:** Dale Osborne

**Clinical Professors:** John Barden, Britt Berrett, Abhijit Biswas, Pamela Foster Brady, Larry Chasteen, David Cordell, Tefvik Dalgic, Michael Deegan, Howard Dover, Greg Durham, Forney Fleming Ill, Randall S. Guttery, Charles Hazzard, Robert Hicks, Marilyn Kaplan, Peter Lewin, John F. McCracken, Dennis McCuistion, Radha Mookerjee, Joseph Picken, Divakar Rajamani, Kannan Ramanathan, David Ritchey, Rajiv Shah, Kenneth Smith, Habte Woldu, Fang Wu, Laurie L. Ziegler

**Associate Professors:** Nina Baranchuk, Norris Bruce, Huseyin Cavusoglu, Jianqing Chen, Zhonglan Dai, Xianjun Geng, Umit G. Gurun, J. Richard Harrison, Surya N. Janakiraman, Robert L. Kieschnick Jr., Nanda Kumar, Seung-Hyun Lee, Livia Markóczy, Syam Menon, Toyah Miller, Alp Muharemoglu, Ramachandran (Ram) Natarajan, Valery Polkovnichenko, Ashutosh Prasad, Orlando C. Richard, Young U. Ryu, Gil Sadka, Jane Salk, David J. Springate, Kelsey D. Wei, Jun Xia, Ying Xie, Yexiao Xu, Alejandro Zentner, Yuan Zhang, Feng Zhao, Zhiqiang (Eric) Zheng, Yibin Zhou

**Clinical Associate Professors:** Sonia Leach, Carolyn Reichert, Kelly Slaughter, Mark Thounin, John McClain Watson

**Assistant Professors:** Mehmet Ayvaci, Emily Choi, Rebecca Files, Bernhard Ganglmair, Dorothee Honhon, Elisabeth Honka, Kyle Hyndman, Atanu Lahiri, Sheen Levine, Bin Li, Jun Li, Meng Li, Ningzhong Li, Virginie Lopez-Kidwell, Arzu Ozoguz, Anyan Qi, Alessio Saretto, Harpreet Singh, Gonca P. Soysal, Upender Subramanian, Shaqie Tang, Christian Von-Drathen, Malcolm Wardlaw, Han (Victor) Xia, Shengqi Ye, Nir Yehuda, Jieying Zhang, XiaoFei Zhao

**Senior Lecturers:** Hans-Joachim Adler, Shawn Alborz, Athena Alimirzaei, Moran Bluestein, Ayfer Gurun, Vance Lewis, Jiping Ma, Ravishankar Narayan, Dawn Owens, Anastasia V. Scherbakova

**Senior Lecturers:** Arthur M. Agulnek, Semirams Amirpour, Frank Anderson, Mark Anderson, Anindita Bardhan, Ronald Blair, Daniel Bochesler, Tiffany A. Bortz, Richard Bowen, Judd Bradbury, Monica E. Brussolo, George DeCourney, Eugene (Gene) Deluke, Alexander Edsel, Amal El-Ashmawi, Carol Flannery, John Gamin, Mary Beth Goodrich, Maria Hasenhuitt, Julie Gaworth, Thomas Henderson, Jeffery Hicks, Jennifer G. Johnson, Lynn Carl Jones, Michele Lockhart, Jackie

Deleted: Shawn Carraher,

Deleted: Yibin Zhou

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Kimzey, Kristen Lawson, Chris Linsteadt, Jensy Maier, Victoria McCrady, Diane S. McNulty, Ravi Narayan, Madison Pedigo, Jared Pickens, Matt Polze, James Richards, Mark Salamasick, Avanti P. Sethi, Jeanne Sluder, Margaret Smallwood, Steven Solcher, James Szot, Luell (Lou) Thompson, Amy L. Troutman, Robert Wright, Kathy Zolton

Visiting Faculty: Shawn Carraher, Kyle Edgington, James Zhang

Objectives

The Master of Business Administration (MBA) degree provides students with a broad managerial education drawing from all business disciplines. It is obtained by completing the program course requirements of 53 semester credit hours beyond the prerequisites. UT Dallas offers several distinct approaches to obtaining an MBA. These include:

- the Cohort MBA Program, a full-time program in which students are admitted as a group each fall and take their required classes together in a fixed sequence,
- the Professional MBA Flex Program for students attending school part-time, with classes largely meeting in the evening,
- the Professional MBA Evening Cohort Program in which students are admitted as a group each fall and take their required classes together in a fixed sequence,
- the Professional MBA Online with all core and elective courses available online,
- the Executive MBA program in which students must have 8-10 years of experience and are admitted as a classroom cohort each fall,
- the Global Leadership Executive MBA program in which students must have 8-10 years of experience and are admitted as a classroom cohort each fall.

Each of these MBA programs consists of 29 semester credit hours of required core courses and 24 semester credit hours of elective coursework, which may include an optional concentration in a selected area of business study. Courses in the Professional MBA Online use audio streaming lectures supported by downloadable presentations, online text-based conferences, bulletin board and email exchanges, and teleconferences.

The MS in Accounting (MS ACCT) provides a tailored educational experience that encourages (1) a globally-oriented, interdisciplinary focus, (2) a balanced conceptual and pragmatic approach, (3) development of written and oral communication skills, (4) a refinement of research and analytical skills that result in enhanced decision-making abilities, and (5) a commitment to life-long learning. Within the program, students are offered a choice of 18 graduate accounting electives. Classes are tailored towards typical career paths in areas such as corporate accounting, assurance services, taxation services, and internal audit. The MS Accounting is available as an on campus or as an online degree program. Upon completion of the MS in Accounting, students may be eligible to sit for the Uniform CPA Examination, provided they meet the educational requirements.

The MS in Business Analytics will explore key issues associated with the analysis of massive volumes of business data. The availability of such data is made possible by innovations in information technology, including the Internet and mobile devices that allow firms to capture facts, figures, statistics and more on a large scale. The phenomenon of "big data", the common term for these massive collections is pervasive and
The courses in the program will address the collection, management and analysis of data using information technology tools and sophisticated mathematical models that can provide deep business insights that will help in formulating and implementing business strategies. The objective of the program is to train students to use analytic models and tools to identify opportunities as well as problems within business operations in order to gain a competitive edge in the global economy. The program will ensure that students not only will acquire fundamental knowledge of business analytics and its applications but also will obtain hands-on experiences gained through projects in partnership with companies.

The MS in Energy Management will train students in the fundamentals of global energy markets and provide them with skills necessary to make managerial decisions faced by diverse energy companies. The curriculum addresses concepts related to economics, finance, business strategy, risk management, public policy, technology and energy supply chain with the objective of identifying challenges and opportunities. The degree program requires students to complete 9 semester credit hours of business core courses, 15 semester credit hours in energy core courses, and 12 semester credit hours of electives that can be tailored to reflect a particular interest in a specific area of the energy industry, such as risk management, logistics and supply chain, finance and contracting and negotiations.

The MS in Finance (MS FIN) is designed for students either with or without previous educational background in finance. At least 18 semester credit hours of management coursework beyond prerequisite courses is required, including 18 semester credit hours of basic business core courses and 18 semester credit hours of graduate finance and/or finance-related courses. Most MS Finance students will select the Financial Management option, which provides a generalist approach to the degree while allowing maximum flexibility to design a program tailored to their needs. Students can also choose one of the six concentrations: investment management, financial analysis, financial risk management, energy risk management, management of financial institutions, and real estate finance.

The MS in Healthcare Management (MS HMG) prepares students for roles in the leadership and management of the U.S. healthcare industry. The 36 semester credit hour program integrates a thorough grounding in advanced business management theory and practice with an understanding of the structure, operation, and financing of the U.S. healthcare system. There are two separate programs available: the Professional track is for healthcare administrators and those desiring a management career in this field and the Executive track is exclusively for licensed physicians.

The MS in Information Technology and Management (MS ITM) bridges the gap between the pure information technologist and the business professional. By providing a technology intensive program with a business focus, the program prepares graduates to apply information technology to business problems and create efficient and effective solutions. The degree requires a minimum of 36 semester credit hours, consisting of basic business courses, IT foundation courses, IT elective courses, and free electives. The MS ITM is available as on campus or as an online degree program. In addition, students may choose approved electives that maximize their individual educational and professional goals. The program also offers opportunities for students to concentrate in specific tracks such as Enterprise systems, Business Intelligence and Analytics.
Healthcare Systems, IT Consulting and Services Management, and Cybersecurity Management,
depending on their interests and goals.
The **MS in Innovation and Entrepreneurship** (MS IE) prepares students for successful business careers in entrepreneurial new ventures, entrepreneurial finance (venture capital/private equity), or innovation-related roles in mature organizations (product planning, product marketing, product development, etc.). This degree offers two primary program options: the Innovation within the Corporation concentration and the New Venture concentration, which includes the Startup Launch Track as a separate option. The MS IE degree complements baccalaureate or advanced degrees in management, scientific or engineering disciplines, and is valued by employers in technology-related or consumer products industries. The program provides a solid foundation in the management disciplines essential to innovation, with specific focus on the tools, techniques, and skills required to develop and lead product, service and business model innovation.

The **MS in International Management Studies** (MS IMS) degree program provides relevant knowledge and training in international management, which includes trade across national boundaries, management practices within multinational firms as well as international organizations. The program provides students the opportunity to learn in-depth the fundamentals of (1) functional areas of management, (2) international management practices and strategies, and (3) cultural, sociopolitical, and geographical constraints affecting international business decisions. The program also provides students with opportunity to learn about international business environments through international study trips conducted in various regions of the world. The international study courses are usually offered between semesters and vary in length from two to three weeks and are generally taken as part of an Area Studies course. Many of the courses for this degree can also be taken via distance learning.

The **MS in Management and Administrative Sciences** (MS MAS) degree provides students the opportunity for specialized education in a specific management discipline built upon a core of business courses. It is obtained by completing the program course requirements of 36 semester credit hours beyond all prerequisites. The program consists of 10 semester credit hours of business core courses, and the remaining semester credit hours as elective courses. Potential concentration areas for students include: accounting, enterprise systems, internal audit, corporate finance, investments, marketing, e-commerce, information systems, operations and supply chain, real estate, innovation and entrepreneurship, organizations, organizational behavior and coaching, strategy, and international topics. The classes for this degree are largely offered in the evenings or online.

The **MS in Marketing** (MS MKT) program prepares students seeking higher level positions in marketing and/or pursing a graduate program to further advance their marketing knowledge. The MS in Marketing program offers five specialized tracks: advertising and branding, digital advertising and marketing, marketing analytics, product management, and a general track of marketing management. The program also offers an opportunity to obtain academic certifications in marketing analytics or product management.

The **MS in Supply Chain Management** (MS SCM) is the management of business activities from product development, sourcing, production and logistics to managing the resources and related capabilities the organization needs in the accomplishment of its strategic objectives. This 36 semester credit hours program explores the key issues associated with the design and management of industrial supply chains and provide students with advanced knowledge on how to identify, resolve, and manage complex operational problems. The program also introduces students to current supply chain operating practices, analysis methods, technology, applications and strategy developments. Students will acquire not only the crucial knowledge of business management but also analytical decision-making skills (especially for complex systems) along with real-life experiences gained through industry projects with area companies.
The MS in Systems Engineering and Management (MS SEM) will focus on (a) educating industry-sponsored corporate employees in the Executive format of the program and (b) regular full-time in the traditional format of the program in the disciplines of Systems Engineering, Systems Management, Entrepreneurship and Intrapreneurship, Product Line Development and Management, and Strategic Business Management. Target industries for the program include: aerospace, defense and space systems, cyber security and information assurance, energy and infrastructure systems, enterprise and data management systems, entrepreneurship and innovation management, global supply chain and operations management, healthcare and biomedical systems, optimization theory and operations research, telecom, IT and multimedia networks and transportation.

The Naveen Jindal School of Management also offers Executive Education degree programs. Executive Education MBA programs are offered for students with eight to ten years of experience. These include (1) the Executive MBA Program with classes meeting for four days a month (Friday and Saturday every other weekend), (2) the Global Leadership Executive MBA is a hybrid program with both classroom and distance learning with a focus on exploring four geographic regions, entering in new geographic markets and leading and executing in those markets, (3) the Executive MBA with emphasis in Project Management that highlights managing complex projects, (4) the Healthcare Management Executive MBA for physicians interested in learning how to improve the leadership and management of their organizations. Students in Executive Education programs are assessed program related fees beyond those charged to other graduate students to cover the additional costs of unique scheduling, events, and services associated with these programs. Each of these programs requires 53 semester credit hours to graduate.

Leaders in high tech firms often need expertise in both engineering and management. Through a unique combined master's level degree program, graduate students may earn an MS EE degree from the Jonsson School of Engineering and Computer Science in combination with an MBA, or an MS degree from the Naveen Jindal School of Management. This combined degree program is ideal for students interested in managing new technologies, from conceptualization and development to introduction and production. Students must meet the admission requirements in both schools and have an advisor in both schools. The combination of MS EE and MBA degrees can be earned by completing a minimum of 68 graduate semester credit hours, compared to 86 semester credit hours if completing the two degrees separately. The combination of MS EE
and MS degrees can be earned by completing a minimum of 51 semester credit hours beyond prerequisites, compared to 69 semester credit hours if completing the two degrees separately.

The **PhD in International Management Studies** provides the opportunity to conduct research in the analysis of international business, emphasizing a strong foundation in theory and research in organizations and strategy. International Management Studies focuses on the analysis of organizations, industries and markets as interdependent systems, stressing structural, strategic, environmental, and international considerations and their implications for management. Topics such as corporate strategy, international business, multinational management, organization design and change, technological and industrial development, and managerial decision-making are examined using management theories and empirical methods.

The **PhD in Management Science** provides the opportunity to conduct research in a functional business area to contribute to the knowledge in that field with respect to its intellectual content or professional practice. The Naveen Jindal School of Management defines Management Science as the use of economics, behavioral science, mathematics, and statistics to conduct rigorous scientific research. It encompasses both theory and empirical analysis. Management Science embraces areas of specialization such as accounting, finance, information systems, marketing and operations management. It has no clear boundaries among the various areas, places emphasis on science, and is not constrained by the culture of individual disciplines. It is the underlying orientation of science and integration that distinguishes Management Science from other philosophies and approaches to the study of management.

Both doctoral programs offer preparation for academic and/or research positions in universities, with organizations such as the World Bank, and in industry, both in the United States and in other countries.

**Facilities**

The Naveen Jindal School of Management's 200,000 square foot (approximate) building opened in the fall of 2003. The three wings, arranged around a courtyard, provide classrooms, meeting rooms, office space and state-of-the-art wireless access to the internet throughout the facility.

**Admission Requirements to Master's Programs**

Please visit the university's [general admission criteria](http://catalog.utdallas.edu/2014/graduate/programs/jsom) for the graduate programs. The following factors are considered in arriving at an admission decision:

- A bachelor's degree from an institution in the United States, or its equivalent, as determined by the Dean of Graduate Studies,
- International applicants must submit a TOEFL score of at least 80 on the internet based test that is less than two years old,
- Personal essay outlining academic interests and goals,
- All Master's programs will require at least one letter of recommendation which can be either professional or professorial. For the MBA programs, at least one letter must be professional.
- Resume, and
- Competitive GMAT (GRE also accepted) performance based on a score that is less than five years old.

*Exceptions can be made to the GMAT/GRE requirement for any student with a 3.6 or greater GPA based on the last 60 credit hours at an AACSB accredited undergraduate institution. These exceptions will be made based on*
a holistic review by the admissions committee of their work experience and academic performance.
Applications are due in the Admissions Office 90 days prior to registration for international students and 45 days prior to registration for all other students. Students are admitted three times per year and can start their studies during any one of the three semesters. Students may apply for the Dean's Excellence Scholarship, which provides financial support in the form of scholarships.

**Admission Requirements to Full-time (Cohort) MBA program:** In addition to the factors required for admission to the evening programs, admission to the Full-time, Cohort MBA program requires the capability to perform well in a fast-paced, team-oriented curriculum. Applicants are admitted based on a composite evaluation of the submitted measures of performance which include the GMAT, GPA, recommendation letter, and work experience, as well as initiative and interest suggested through essays. The Admission Committee seeks academic and professional excellence. Applications completed by March 1 will be considered for financial support. International applications are due May 1 and domestic applications by July 1. Students are admitted each fall.

**Admission Requirements to Executive MBA programs:** Admissions are based on academic transcripts, a personal essay, three letters of recommendation, professional growth and experience and the potential that they will bring to the cohort. Students must have eight to ten years of business experience with relevant managerial or international experience. The GMAT is not required, but each applicant will interview with the program director.

**Admission Requirements to Master of Science in Healthcare Management** for Physicians and the Healthcare Management Executive MBA for Physicians (both Executive Track) requires an MD or DO degree from a school of medicine or school of osteopathy, a copy of a current unrestricted license to practice medicine in the U.S. and a medical school transcript.

**Admission Requirements to Non-Degree Seeking Students:** Students may be admitted as non-degree seeking students. To be admitted as a non-degree seeking student, students will have to meet all the admission requirements specified for degree seeking students including relevant test scores (GMAT/GRE, TOEFL). Students who want to switch to degree-seeking status, will have to apply to the degree program. If they are admitted, at most six credits taken as a non-degree seeking student can be transferred to the degree program.

**Substitutions and Transfers of Credit**

Substitutions of program requirements may be granted in recognition of previous coursework taken in a specific business program area. Substitutions are approved by the appropriate program director through a process which allows a student to skip a core course and take the next higher level course in that area with no reduction in the overall program semester credit hour requirements. Transfers of credit may be granted for equivalent graduate coursework taken at other universities with a grade of "B" or better within the past six years. The appropriate program director initiates such transfers, which must be approved by the Dean of Graduate Studies. The total number of transfers of credit toward the completion of a master's degree cannot exceed nine semester credit hours toward the MS degree, and twelve semester credit hours toward the MBA degree. Applications for approval of substitutions and transfers of credit may be obtained in and submitted to the Naveen Jindal School of Management Advising Office.

**Prerequisites for Graduate Programs**

Knowledge of calculus is a requirement for certain programs (see individual programs for details). Students who have not completed an undergraduate calculus course may satisfy the prerequisite by completing OPRE 6303 Quantitative Foundations in Business. Degree credit is not earned for program prerequisites; however,
the grade achieved in OPRE 6303 will count toward the student's grade point average. For the MS in International Management Studies, FIN 6301 Financial Management has a prerequisite of OPRE 6301, its equivalent or instructor consent required. Prerequisites must be satisfied within the first twelve semester credit hours of graduate study as a degree-seeking student.

Updated: September 12, 2014 - Visitor: 1169
Naveen Jindal School of Management

Master of Business Administration

53 semester credit hours minimum

Degree Requirements

The MBA degree program at the Naveen Jindal School of Management is obtained by completing a 53 semester credit hour program beyond prerequisite courses consisting of 29 semester credit hours of core courses and 24 semester credit hours of elective courses. The school offers four different programs for students to choose (MBA full-time cohort, professional MBA evening cohort, professional MBA Flex and professional MBA online).

At the option of the student, a concentration may be developed by taking a set of electives related to an area of interest. Students must maintain a 3.0 grade point average in both core courses and in aggregate courses to qualify for the MBA degree.

NOTE: The Executive Education area of the Naveen Jindal School of Management offers four distinctive and separate MBA programs, which retain the same set of MBA core courses but have their own set of specific topical electives. These include the Executive MBA (EMBA), the Global Leadership Executive MBA (GLEMBA), the Executive MBA with an emphasis in project management, product lifecycle and supply chain, or organizational behavior and coaching, and the Executive Healthcare MBA.

Prerequisite

Calculus is required as a graduate program prerequisite. Candidates that have not taken an equivalent course will need to complete OPRE 6303 with a grade of "B" or better to meet the calculus requirement.

Course Requirements

Core Courses: 29 semester credit hours

Each candidate must satisfactorily complete the following core of 11 courses.

- ACCT 6201 Introduction to Financial Accounting
- ACCT 6202 Introduction to Managerial Accounting
- BPS 6310 Strategic Management
- FIN 6301 Financial Management

 Deleted: There are four different programs for students interested in the MBA. We offer an MBA full-time (cohort) program, a professional MBA evening cohort program, professional MBA Flex and an professional MBA online.

 Deleted: Calculus is required as a prerequisite for some of the coursework in the MBA. Candidates that have not taken calculus or an equivalent course will need to take OPRE 6303 to meet this requirement.
Elective Courses: 24 semester credit hours

Each candidate must also complete an additional 24 semester credit hours of elective graduate coursework. Students may develop a concentration within the 24 semester credit hours of electives, but are not required to do so. Students cannot include more than 12 semester credit hours of electives in any single functional area (demarcated by the area prefix) beyond the required core courses.

Concentrations

Concentrations are informal collections of electives that address a student's educational goals. A concentration may be aligned with functional area specialties, or may cut across functional areas. Students are encouraged to develop their concentration with the help of a faculty member, area coordinator, or the Advising Office. Typical concentrations include:

Accounting: In today's global and technology-driven environment, managers need skills to effectively analyze accounting information and make value-enhancing decisions. Students may select accounting courses to concentrate in financial analysis, consulting, corporate governance and tax management. This concentration can be further refined to the areas of assurance services, taxation and internal audit.

Business Analytics: A concentration in business analytics covers statistics and econometrics, predictive modeling, decision and optimization (prescriptive) modeling, and data management. Students are prepared for a position within Marketing Analytics, Decision and Operations Analytics, Financial Analytics, Healthcare Analytics, and IT Analytics.

Energy Risk Management: The Energy Management concentration will provide students with skills critical to managerial decision making within energy companies, focusing on supply chain, operations, finance, and risk management.

Finance: Students can prepare for careers in corporate finance, investment management, or the management of financial institutions. Courses in this area emphasize creative solutions to business financing problems, the development of value maximizing investment and financing strategies, and the analysis and management of fixed income and equity investments. Students may choose to concentrate in either corporate financial planning or the analysis of financial securities and investment portfolios.

Healthcare Management: The primary goal of this concentration is to prepare students for leadership positions in healthcare organizations. The healthcare concentration is cross-functional and industry focused. Courses will contain cases, projects, and assignments that are centered around applying management skills to healthcare issues and organizations. Classes are taught by faculty and healthcare executives who bring special expertise and experience to the program.
Information Technology Management: Information technology is integral to all business operations and permeates all aspects of modern business and our courses will enable students to fully utilize information technology to solve business problems and gain strategic advantage. Advanced courses provide skills necessary for the “supply” side of information technology for IT consulting, software management and e-business.

Innovation and Entrepreneurship: The concentration in Innovation and Entrepreneurship prepares students for successful business careers in entrepreneurial new ventures, entrepreneurial finance (venture capital/private equity), or innovation-related roles in mature organizations (product planning, product marketing, product development, etc.). The concentration permits students to pursue electives in either the new venture focus area or the innovation within the corporation focus area.

Internal Audit: Today’s job market for individuals in internal audit and risk management is exceptional. A concentration in this area covers internal audit from a broad perspective and addresses review of business processes, technology, governance, ethics, risk assessment and auditing standards, which allows individual to work in any industry or discipline.

International Management: In today’s global economy, there is a need to develop skills in various international business environments. Students can take a multidisciplinary approach to study the international management, with courses in finance, marketing, strategic management, legal and cross-cultural management. These integrate concepts and theories with international policies and business practices and prepare students to succeed in developing successful international ventures.

Leadership in Organizations: The leadership concentration prepares students for management positions through the study of the psychological, sociological and organizational behavior disciplines. The program provides a foundation of leadership theory, building and problem solving in interpersonal work relationships, group dynamics, organizational decision-making and change and ethics.

Marketing: Students learn to understand customers' needs and purchase behaviors, how to satisfy those needs, and how to make a profit in competitive industries and markets. Topics include, developing an effective marketing strategy, developing new products and managing different brands and product categories. Students can also acquire expertise in pricing, advertising and promotions, market research, and retailing strategies.

Real Estate: The real estate concentration will provide students with both a practical and educational bases to become skilled decision-makers within the industry. This concentration includes courses in real estate finance and capital markets, covering real estate loans, syndication, securitization, regulation, investment, and analysis, combining lectures and case studies to explore the sources of real estate value, project feasibility, strategies for financing, and portfolio management while covering market analysis, government approvals, financing and risk assessment.

Strategic Management: This concentration focuses on corporate level strategic management, including implementation of strategic designs, top management team leadership, the strategic implications of the social, governmental, technological, and international environments, organization structuring and strategic alliances. Students will learn how to integrate accounting, finance, economics and organization theory to
create sustainable competitive advantage.

**Supply Chain Management:** Students specializing in supply chain management gain an analytical understanding of how to leverage profits by continuously improving business processes. Effective integration of customers, suppliers, factories and stores through the coordination of various functional areas (marketing, finance, procurement) is an important theme. The area emphasizes using incentives, contracts and information technologies to foster efficiency and success.

**Systems Engineering and Management:** The concentration is designed to meet the need for formalized education in design, engineering and management of complex systems involving a large number of interconnected components. It will develop a broad range of engineering and managerial skills that trains students to be managers of large projects that require expertise in both technical and managerial disciplines.
Naveen Jindal School of Management

Master of Science in Accounting

36 semester credit hours minimum

Degree Requirements

The MS in Accounting is a 36 semester credit hour degree program focused primarily on educating students in Accounting while recognizing the need for a business foundation. The degree is separated into three components:

1. Basic Business Core
2. Accounting Core
3. Accounting Electives

The degree plan also requires a prerequisite knowledge of accounting foundations.

Accounting Foundational Prerequisites

Students joining the program must have a foundational knowledge in intermediate and cost accounting. Each student’s application and transcripts will be evaluated for successful mastery of these subjects. If a student has not demonstrated successful mastery, then a student may still be granted admission to the program and the accounting foundation classes will be required to be taken at the graduate level at The University of Texas at Dallas in addition to the 36 semester credit hours required for the degree. Any accounting foundational courses required may not be used as Graduate Accounting Electives in the standard MS Accounting degree. Details of the foundational classes are below.

Graduate Accounting Electives

Students should choose 15 semester credit hours of graduate accounting electives that best fit their unique career goals and needs. The MS in Accounting program does not have stated or required concentrations. Students are not required to choose a concentration. Additionally, students may use one non-ACCT graduate class (up to three semester credit hours) from another discipline in the Jindal School of Management. Typical career paths include areas such as corporate accounting, assurance services, taxation, internal audit, or accounting systems/ERP. Refer to the Accounting area advising sheets for assistance with aligning classes with career and personal goals.
GPA Requirements
Students must maintain a 3.0 grade point average (GPA) in both business core courses and in aggregate to qualify for the MS in Accounting degree.

CPA Exam Requirements
Students wishing to become eligible to take the Uniform CPA Exam should understand the requirements of the State Board of Accountancy in their respective state or jurisdiction. Approved and accepted courses to satisfy the requirements for CPA examination can change and students should keep up-to-date on the requirements. The Texas State Board of Public Accountancy (TSBPA) accepts certain courses towards the requirement of 30 semester credit hours of upper level accounting for CPA eligibility. Courses accepted by the TSBPA are subject to change based on catalog review. Please inquire with the Program Director or the MS Accounting website for the most current list.

Program Prerequisites
Calculus is required as a graduate program prerequisite. If a student has not taken an equivalent course already, he/she will need to complete a Math refresher course (OPRE 6303) with a grade of "B" or better to meet the calculus requirement.

Accounting Foundational Prerequisites
If a student has not demonstrated successful mastery in the following accounting foundation courses prior to beginning the MS in Accounting program, then the accounting foundation classes must be taken at the graduate level at The University of Texas at Dallas in addition to the 36 semester credit hours required for the degree. Any foundational courses taken may not be used as Graduate Accounting Electives in the standard MS Accounting degree.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ACCT 3331 or ACCT 6330</td>
<td>Intermediate Financial Accounting I (US GAAP based / in English)</td>
</tr>
<tr>
<td>ACCT 3332 or ACCT 6332</td>
<td>Intermediate Financial Accounting II (US GAAP based / in English)</td>
</tr>
<tr>
<td>ACCT 3341 or ACCT 6331</td>
<td>Cost Management Systems or Cost Accounting</td>
</tr>
</tbody>
</table>

Course Prerequisites
Some courses offered have specific class prerequisites. Some class prerequisites may qualify as Accounting Program electives. For specific course prerequisite information, please visit the UT Dallas Graduate Catalog for further details.
Course Requirements

Business Core: 12 semester credit hours

Each candidate must satisfactorily complete the following four courses (with 3.0 or higher GPA in both core courses and in aggregate courses).

- **ACCT 6388** Accounting Communications
- **ACCT 6335** Ethics for Professional Accountants
- **OPRE 6301** Quantitative Introduction to Risk and Uncertainty in Business
  - or **OPRE 6332** Spreadsheet Modeling and Analytics
- **MECO 6303** Business Economics
  - or **FIN 6301** Financial Management

Accounting Core: 9 semester credit hours

Each candidate must satisfactorily complete the following three accounting core courses:

- **ACCT 6333** Advanced Financial Reporting
- **ACCT 6353** Fundamentals of Taxation II
- **ACCT 6382** Advanced Internal Auditing
  - or **ACCT 6373** Advanced External Auditing.

**NOTE:** Candidates who have completed the required accounting classes within the accounting core or the business core (or their undergraduate equivalents) may be able to obtain a course waiver and substitute for these required courses with other graduate level ACCT electives. Substitutions must be approved by the appropriate Program Director, and forms may be obtained from and submitted to the Naveen Jindal School of Management Advising Office. Waivers do not reduce total semester credit hours required for the degree.

Accounting Electives: 15 semester credit hours

Students should choose 15 semester credit hours of graduate accounting electives that best fit their unique career goals and needs. Additionally, students may use one non-ACCT graduate class (up to three semester credit hours) from another discipline in the Jindal School of Management. Typical career paths include areas such as corporate accounting, assurance services, taxation, internal audit, or accounting systems/ERP. Refer to the Accounting area advising sheets for assistance with aligning classes with career and personal goals.

Select from any of the following courses:

- **ACCT 6309** Business Data Warehousing
- **ACCT 6320** Database Foundations
- **ACCT 6334** Auditing
For students interested in the Internal Audit program and the CIA or CISA designation, 12-18 semester credit hours from the following courses are required:

- ACCT 6380 Internal Audit (This core course is required and must be taken in the first semester.)
- ACCT 6334 Auditing
- ACCT 6335 Ethics for Professional Accountants
- ACCT 6336 Information Technology Audit and Risk Management
- ACCT 6377 Corporate Governance

And other courses as listed in the Course Catalog.
ACCT 6382 Advanced Internal Auditing
ACCT 6383 Fraud Examination
ACCT 6384 Analytical Reviews Using Audit Software
ACCT 6386 Governance, Risk Management and Compliance (GRC)
ACCT 6V98 Accounting Internship (Internal Audit Internship)

Please contact the Internal Audit Education Program Director for more information.
Naveen Jindal School of Management

Master of Science in Business Analytics

36 semester credit hours minimum

Degree Requirements

The Master of Science in Business Analytics (MS BUAN) is an STEM (Science, Technology, Engineering and Mathematics) degree program (18-24 months) at the Naveen Jindal School of Management that provides students with a broad foundation in the business intelligence and analytics area. The program includes core courses and analytics electives organized into different tracks such as Marketing Analytics, Decision and Operations Analytics, Financial Analytics, Healthcare Analytics and IT for Analytics.

Students must maintain a 3.0 grade point average in both core courses and in aggregate courses to qualify for the MS degree.

Course Requirements

Core Courses: 24 semester credit hours from the following

- **BUAN 6312** Applied Econometrics and Time Series Analysis
  or **ECON 6306** Applied Econometrics
- **OPRE 6301** Quantitative Introduction to Risk and Uncertainty in Business
- **BUAN 6398** Prescriptive Analytics
- **BUAN 6320** Database Foundations
- **BUAN 6324** Business Intelligence Software and Techniques
- **BUAN 6390** Analytics Practicum
- **MKT 6337** Marketing Predictive Analytics Using SAS

and

Choose one course from the following Track-Specific courses:

- **FIN 6301** Financial Management
- **HMGT 6320** The American Healthcare System
- **MIS 6308** Systems Analysis and Project Management
- **MKT 6301** Marketing Management
Analytics Electives: 12 semester credit hours

Students may choose a track from the following areas to obtain in-depth analytics knowledge:

Healthcare Analytics Track
- HMGT 6323 Healthcare Informatics
- HMGT 6334 Healthcare Analytics
- HMGT 6327 Information and Knowledge Management in Healthcare
- HMGT 6325 Healthcare Operations Management

Financial Analytics Track
- FIN 6381 Introductory Mathematical Finance
- FIN 6306 Quantitative Methods in Finance
- FIN 6352 Financial Modeling
- FIN 6382 Numerical Methods in Finance

IT For Analytics Track
- MIS 6309 Business Data Warehousing
- MIS 6334 Advanced Business Intelligence (with SAS)
- MIS 6344 Web Analytics
- MIS 6373 Social Media and Business

Marketing Analytics Track
- MKT 6338 Enterprise Systems and CRM or MKT 6340 Marketing Projects Lab*
- MKT 6323 Database Marketing
- MKT 6309 Marketing Research
- MKT 6362 Marketing Models

Decisions and Operations Analytics Track
- OPRE 6332 Spreadsheet Modeling and Analytics
- OPRE 6335 Risk and Decision Analysis
- OPRE 6377 Demand and Revenue Management
- OPRE 6378 Supply Chain Strategy

Other Analytics-related courses can be approved on a case-by-case basis.

* Program director approval required.
http://catalog.utdallas.edu/2015/graduate/programs/

NEW URL / new program approved by THECB/SACS.

UT Dallas 2015 Graduate Catalog

Naveen Jindal School of Management

Master of Science in Energy Management

36 semester credit hours minimum

Master of Science in Energy Management (MS EM)

Degree Requirements

The Master of Science in Energy Management (MS EM) is an STEM (Science, Technology, Engineering and Mathematics) degree program (18-24 months) at the Naveen Jindal School of Management that prepares students for careers in oil, gas, renewable energy, electricity companies, banks and financial institutions that trade energy commodities, energy-focused consulting firms and major energy consuming corporations.

The curriculum includes a significant number of experiential learning opportunities. Energy Management courses incorporate a variety of techniques to teach students how to value energy companies and projects, develop operating strategies, negotiate contracts, and manage energy-specific risks. The development of the program was motivated by a high concentration of energy companies in the Dallas/Fort Worth area and UT Dallas's aims to address skill shortages in industries critical to the Texas economy. Students must maintain a 3.0 grade point average in both core courses and in aggregate courses to qualify for the MS degree.

Prerequisites

Prerequisite knowledge in advanced Math (Probability/Statistics) is required for MS in Energy Management degree program. Applicants need to have earned a "B" or better in advanced Math or its equivalent to satisfy the prerequisite. Applicants who have not satisfied this requirement may be admitted but will need to satisfy the prerequisite within the first semester of UT Dallas course work, by taking OPRE 6301 Quantitative Introduction to Risk and Uncertainty in Business.

Course Requirements

Comment [MV1]: Information provided by Dr. Alborz, email 2-6-15. Will be reviewed once more by Alborz.

Comment [MV2]: Follow the same format in other JSOM graduate degree program.

Comment [MV3]: A suggestion: we should spell out what STEM means in case anyone does not understand it. "a Science, Technology, Engineering, and Mathematics (STEM) degree"
Business Core Courses: 9 semester credit hours

FIN 6301 Financial Management
MECO 6303 Business Economics
OPRE 6302 Operations Management

Energy Core Courses: 15 semester credit hours

FIN 6335 Energy Finance
FIN 6336 Energy Accounting and Taxation
ENGY 6330 Energy Law and Contacts
MECO 6318 Energy Economics
OPRE 6389 Introduction to Managing Energy: Risk, Investment, and Technology (MERIT)

Elective Courses: 12 semester credit hours

FIN 6341 Energy Risk Management
FIN 6360 Options and Futures Markets
GISC 6381 Geographic Information Systems Fundamentals
ENGY 6331 Capstone Project in Energy
MECO 6312 Applied Econometrics and Time Series Analysis
MECO 6352 Financial Negotiation and Dispute Resolution
MKT 6309 Marketing Research
OPRE 6332 Spreadsheet Modeling and Analytics
OPRE 6335 Risk and Decision Analysis
OPRE 6362 Project Management in Engineering and Operations
OPRE 6366 Global Supply Chain Management

or OPRE 6378 Supply Chain Strategy
OPRE 6370 Global Logistics and Transportation
OPRE 6371 Purchasing, Sourcing and Contract Management
Naveen Jindal School of Management

Master of Science in Finance

36 semester credit hours minimum

Degree Requirements

At least 36 semester credit hours of management coursework beyond prerequisite courses is required, including 18 semester credit hours of basic business core courses and 18 semester credit hours of graduate finance courses. The MS in Finance is designed for students with or without previous educational background in finance. Many students will select the Financial Management option, which allows them to design a program to their needs.

For students wanting a more focused program, six concentrations are available: Investment Management, Financial Analyst, Financial Risk Management, Energy Risk Management, Management of Financial Institutions, or Real Estate. The Investment Management concentration is designed for students interested in pursuing an investment career and completing the Chartered Financial Analyst (CFA) examinations. The Financial Analyst concentration is designed for students interested in corporate finance, investment banking, venture capital, private equity, or corporate restructuring and turnarounds. The Financial Risk Management concentration is designed for students with the quantitative ability to pursue a career applying quantitative methods to risk management problems and prepares students for the Financial Risk Manager (FRM) examinations. The Energy Risk Management concentration is designed for students with the quantitative ability to pursue a career applying quantitative methods to energy risk management problems and prepares students for the Energy Risk Manager (ERM) examinations. The Management of Financial Institutions concentration prepares students for careers in banking or other financial institutions. The Real Estate concentration prepares students for various types of careers in the real estate industry. Because these concentrations have been designed to prepare students for certain certifications, students are recommended to focus on the coursework within a particular concentration in order to prepare for its associated certification.

Students must maintain a 3.0 grade point average in both core courses and in aggregate courses to qualify for the MS degree.

Prerequisites

Calculus and basic statistics are required as prerequisites. Candidates that have not taken equivalent courses will need to take OPRE 6303 to meet the calculus requirement and OPRE 6301 to complete the basic statistics requirement.
Course Requirements

Basic Core Courses: 18 semester credit hours

All students enrolling in the Master of Science in Finance program must complete the following Basic Business Core courses, or their equivalents. Please see the catalog for further prerequisite information.

- **ACCT 6305** Accounting for Managers
- or **ACCT 6201** Introduction to Financial Accounting and **ACCT 6202** Introduction to Managerial Accounting
- **MECO 6303** Business Economics
- **FIN 6301** Financial Management
- **FIN 6306** Quantitative Methods in Finance
- **FIN 6310** Investment Management
- **FIN 6350** Advanced Financial Management

Financial Management Option: 18 semester credit hours

Students must complete six courses; of which at least three must come from category B. Students may do an internship, **FIN 6V98**, as part of this option.

**Category A:** **ACCT 6330**, **ACCT 6332**, **ACCT 6344**, **MECO 6312**, **MECO 6315**, **ECON 6305**, **ECON 6306**, **OPRE 6335**, **OPRE 7310**, **MIS 6320**, **MIS 6324**, **MIS 6344**. Note: Either **MECO 6312** or **ECON 6306** can be counted as they are substitutes.


Concentrations: 18 semester credit hours

**Investment Management (CFA) Concentration – recommended coursework:**

- **ACCT 6344** Financial Statement Analysis
- **FIN 6308** Regulation of Business and Financial Markets
- **FIN 6311** Valuation Models and Practices
- **FIN 6314** Fixed Income Securities
- **FIN 6325** Macroeconomics and Financial Markets

Deleted: **FIN 6320**

Deleted:
FIN 6330 Behavioral Finance
FIN 6360 Options and Futures Markets
FIN 6364 Advanced Investment Management
FIN 6370 The Theory of Finance and Its Applications
FIN 6380 Global Fund Management

Financial Analyst Concentration - recommended coursework:

ACCT 6330 Intermediate Financial Accounting I
ACCT 6332 Intermediate Financial Accounting II
FIN 6311 Valuation Models and Practices
FIN 6316 Private Equity Finance
FIN 6352 Financial Modeling
FIN 6355 Corporate Finance and Policy
FIN 6356 Mergers and Acquisitions
FIN 6357 Corporate Restructuring and Turnarounds
FIN 6366 International Financial Management
MECO 6352 Financial Negotiation and Dispute Resolution

Financial Risk Management Concentration - recommended coursework:

FIN 6314 Fixed Income Securities
FIN 6360 Options and Futures Markets
OPRE 7310 Probability and Stochastic Processes
MECO 6312 Applied Econometrics and Times Series Analysis
or ECON 6306 Applied Econometrics
FIN 6370 The Theory of Finance and Its Applications
FIN 6381 Introductory Mathematical Finance
OPRE 6335 Risk and Decision Analysis
FIN 6382 Numerical and Statistical Methods in Finance
FIN 6383 Financial Risk Management

Energy Risk Management Concentration - recommended coursework:

OPRE 6335 Risk and Decision Analysis
MECO 6318 Energy Economics
FIN 6335 Energy Finance
FIN 6341 Energy Risk Management
FIN 6360 Options and Futures Markets
FIN 6382 Numerical and Statistical Methods in Finance
MECO 6312 Applied Econometrics and Times Series Analysis
or ECON 6306 Applied Econometrics

Management of Financial Institutions Concentration - recommended coursework:

FIN 6308 Regulation of Business and Financial Markets
FIN 6311 Valuation Models and Practices
FIN 6314 Fixed Income Securities
FIN 6325 Macroeconomics and Financial Markets
FIN 6340 Management of Financial Institutions
FIN 6360 Options and Futures Markets
FIN 6370 The Theory of Finance and Its Applications
FIN 6383 Financial Risk Management

Real Estate Finance Concentration - recommended coursework:

FIN 6314 Fixed Income Securities
FIN 6321 Introduction to Real Estate
FIN 6322 Real Estate Finance and Investment
FIN 6323 Real Estate Market Analysis and Investment
FIN 6324 Real Estate Development
FIN 6326 Real Estate Law and Contracts
FIN 6328 Real Estate Valuation
Naveen Jindal School of Management

Master of Science in Healthcare Management

36 semester credit hours minimum

Faculty Program List Placeholder

Degree Requirements

The Master of Science in Healthcare Management prepares students for roles in the leadership and management of the U.S. healthcare industry. It integrates a thorough grounding in advanced business management theory and practice with an understanding of the structure, operation, and financing of the U.S. healthcare system. The curriculum is customized to accommodate the needs of two different audiences:

**Professional Track** - for healthcare administrators and those desiring a management career in the healthcare industry; and

**Executive Track** - for physicians and senior healthcare executives.

**Professional Track** - The Professional Track MS in Healthcare Management is a 36 semester credit hour program consisting of business core, healthcare management courses, and electives. Students must maintain a 3.0 grade point average in both core courses and aggregate courses to qualify for the MS degree.

 Required Business Core: 15 semester credit hours

- **OB 6301** Organizational Behavior
- **FIN 6301** Financial Management
- **ACCT 6305** Accounting for Managers
- **MKT 6301** Marketing Management
- **OPRE 6301** Quantitative Introduction to Risk and Uncertainty in Business

Healthcare Management Core: 18 semester credit hours

The following four courses are required:

- **HMGT 6320** The American Healthcare System
- **HMGT 6321** Strategic Leadership of Healthcare Organizations
- **HMGT 6323** Healthcare Informatics
- **HMGT 6330** Healthcare Law, Policy and Regulation
Choose at least 6 semester credit hours from the following:

- **HMGT 6322** Healthcare Cost Management and Control
- **HMGT 6324** Healthcare Negotiation and Dispute Resolution
- **HMGT 6325** Healthcare Operations Management
- **HMGT 6327** Information and Knowledge Management in Healthcare
- **HMGT 6329** Seminar in Healthcare Management
- **HMGT 6331** Healthcare Economics
- **HMGT 6332** Quality Improvement in Healthcare: Six Sigma and Beyond
- **HMGT 6333** Ethics in Healthcare Management
- **HMGT 6334** Healthcare Analytics
  
  or **MIS 6324** Business Intelligence Software and Techniques
- **HMGT 6340** Principles of Hospital Administration
- **HMGT 6380** Internal Audit
- **HMGT 6382** Advanced Internal Auditing
- **HMGT 6336** Information Technology Audit and Risk Management  
  [OB 6307]

Other Electives: 3 semester credit hours

The 3 semester credit hour Business Management elective requirement may be met by additional healthcare courses as well as by advanced courses in other management disciplines. Suggested elective concentrations:

**Healthcare Informatics**

For students desiring a strong background in the application of IT in the healthcare field,

- **HMGT 6323** Healthcare Informatics (core course)
- **HMGT 6327** Information and Knowledge Management in Healthcare
- **HMGT 6334** Healthcare Analytics

  or **MIS 6324** Business Intelligence Software and Techniques

Students completing **HMGT 6323, HMGT 6334**, and **HMGT 6327** will qualify for a Graduate Certificate in Healthcare Information Technology.

**Healthcare Internal Auditing**

For students with a desire for an internal auditing career with a healthcare provider organization
HMGT 6380 Internal Audit
HMGT 6382 Advanced Internal Auditing
HMGT 6336 Information Technology Audit and Risk Management

Healthcare Operations

For students desiring a broad-based background in management of healthcare organizations,

HMGT 6325 Healthcare Operations Management
HMGT 6332 Quality Improvement in Healthcare: Six Sigma and Beyond
HMGT 6322 Healthcare Cost Management and Control

or HMGT 6334 Healthcare Analytics

Executive Track

The Executive Track for physicians is delivered in a non-semester format. The 36 semester credit hour curriculum consists of nine 4-day residential classes. A different class is offered every two months and classes may be started at any time and taken in any order. The program is jointly taught by faculty from UT Dallas Naveen Jindal School of Management and The University of Texas Southwestern Medical Center. Eight classes are eligible for up to 36 semester credit hours each of Category 1 CME credit toward the AMA Physician's Recognition Award and CEU credit for healthcare executives.

Successful completion of any five classes is recognized by the award of a Graduate Certificate in Healthcare Management. Completion of the nine healthcare management classes OR any eight classes plus a self-directed field study is recognized by the award of a Master of Science in Healthcare Management. Students must maintain a 3.0 overall grade point average in order to qualify for the MS degree.

The Executive Track MS in Healthcare Management is supported entirely by participant fees and special admission requirements apply. The class is open only to physicians with a current license to practice medicine in the U.S.

HMGT 6401 Negotiation and Conflict Management in Healthcare
HMGT 6402 Financial Management of Healthcare Organizations
HMGT 6403 Medical Cost and Performance Management
HMGT 6404 Quality and Performance Improvement in Healthcare
HMGT 6405 Healthcare Information Management and Technology
HMGT 6406 Strategic Management of Healthcare Organizations
HMGT 6407 Healthcare Policy and Regulation
HMGT 6408 Competencies of Effective Physician Leaders
HMGT 6410 Leading Complex Organizations
HMGT 6V15 Self-Directed Field Study
Certificate Programs - Lean Six Sigma in Healthcare Quality

Lean Six Sigma for Healthcare Management | Yellow Belt in Healthcare Quality Certificate

Lean Sigma is a framework used in improving quality by focusing on re-engineering the processes involved in delivering a product or service. The Six Sigma concept was introduced in the mid-1980s to improve manufacturing processes and it has evolved over many decades. Lean Six Sigma has become popular in the service sector and increasingly being applied to improve the quality of healthcare processes and reducing the overall cost.

Requirements

Students enrolled in the Master of Science in Healthcare Administration program or any other graduate programs have the opportunity to earn a Yellow Belt in Healthcare Lean Six Sigma by completing the following four courses with a grade of B or higher. Please contact Dr. Kannan Ramanathan for more information.

HMGT 6320 The American Healthcare System
HMGT 6321 Strategic Management of Healthcare Organizations
HMGT 6323 Healthcare Informatics in Healthcare
HMGT 6332 Quality Improvement in Healthcare: Six Sigma and Beyond

Lean Six Sigma Green Belt in Healthcare Quality Certificate

Lean Six Sigma is a framework used in improving quality by focusing on re-engineering the processes involved in delivering a product or service. The Six Sigma concept was introduced in the mid-1980s to improve manufacturing processes and it has evolved over many decades. Lean Six Sigma has become popular in the service sector and increasingly being applied to improve the quality of healthcare processes and reducing the overall cost.

Requirements

Students enrolled in the Master of Science in Healthcare Administration program have the opportunity to earn a Green Belt in Healthcare Lean Six Sigma by completing the required course with a grade of B or higher. Please contact Dr. Kannan Ramanathan for more information.

HMGT 6332 Quality Improvement in Healthcare: Six Sigma and Beyond
OPRE 6364 Quality Control: Lean Six Sigma

Required Project

The student will work in a team with other students to complete a project under the guidance of a coach to address the quality improvement issue at a healthcare or healthcare related, organization (for the Green Belt in Healthcare Lean Six Sigma) or in any organization (healthcare or not) for the Green Belt certificate in Quality. Please contact Dr. Kannan Ramanathan for more information.
Naveen Jindal School of Management

Master of Science in Innovation and Entrepreneurship

36 semester credit hours minimum

Degree Requirements

The Master of Science in Innovation and Entrepreneurship degree requires 12 semester credit hours of basic core courses, including foundational courses in entrepreneurship and entrepreneurial finance. The curriculum also provides two concentration areas, the first focuses on entrepreneurial startups (New Venture concentration) and the second on the challenges of managing entrepreneurial innovation within the more structured environment of a mature organization (Innovation within the Corporation concentration). The student must take a minimum of 12 semester credit hours within one of the designated concentration areas.

An additional 12 semester credit hours of electives must be taken, including at least one course from among the experiential courses taught in the Venture Development Center (ENTP 6360, ENTP 6365, or ENTP 6398). The remaining electives may be chosen from among any of the concentration area courses not already taken, the other ENTP electives offered, the non-ENTP courses listed as electives below, or, with permission, from among any of the other JSOM offerings in the ACCT, BPS, FIN, IMS, MIS, MKT, OPRE, or OB areas.

Students must maintain a 3.0 grade point average in both core courses and in aggregate courses to qualify for the MS degree.

Prerequisites

ENTP 6315 requires that students have completed a course in finance (equivalent to FIN 6301). FIN 6301 requires completion of a course in business statistics (equivalent to OPRE 6301). Candidates who have not taken equivalent courses will need to take FIN 6301 and/or OPRE 6301 to meet the prerequisite requirements. If required, one of these prerequisite courses (but not both) may be included as an elective that will count as part of the 36 semester credit hours required for the MS degree.

Course Requirements

Basic Core Courses: 12 semester credit hours

Each candidate must satisfactorily complete the 12-semester credit hour basic core consisting of the following courses:
Concentration Area Courses: 12 semester credit hours

Each candidate must complete a minimum of 12 semester credit hours within one of the two concentration areas below:

**New Venture Concentration**
- ENTP 6375 Technology and New Product Development
- ENTP 6378 Managing the Emerging Enterprise
- ENTP 6380 Market Entry Strategies
- ENTP 6390 Business Model Innovation

**Innovation within the Corporation Concentration**
- ENTP 6375 Technology and New Product Development
- ENTP 6380 Market Entry Strategies
- ENTP 6388 Managing Innovation within the Corporation
- ENTP 6390 Business Model Innovation

Elective Courses: 12 semester credit hours

Each candidate must complete a sufficient number of electives to earn a minimum of 36 semester credit hours toward the MS degree. At least one course must be chosen from among the experiential courses taught in the Venture Development Center (indicated by an asterisk * below). The remaining electives may be chosen from:

- ENTP 6311 Valuation Models and Practices
- ENTP 6316 Private Equity Finance
- ENTP 6360 Startup Launch I*
- ENTP 6361 Startup Launch II*
- ENTP 6362 Startup Launch III-IV*
- ENTP 6365 Business Concept Validation*
- ENTP 6382 Professional Selling I
- ENTP 6392 Entrepreneurship in the Social Sector
- ENTP 6398 The Entrepreneurial Experience *
- ENTP 6V97 Entrepreneurial Internship
- BPS 6310 Strategic Management
Startup Launch Track

The Startup Launch Track is a unique program within the framework of the MS IE degree program. Startup Launch is a competitive program for students with a significant and scalable business concept who desire to launch their venture during or immediately after completion of the degree. The program is designed to progressively develop and mature both the entrepreneur and his or her venture concept from the early startup stage to the point where it is ready for launch and represents a prime candidate for funding by the professional investment community.

Participants will be selected on the basis of their scalable business concept and entrepreneurial capability and will be provided ongoing support and mentoring by faculty and experienced entrepreneurs, space in the UT Dallas Venture Development Center, up to $25,000 in seed capital, and the opportunity to earn up to 12 semester credit hours (in ENTP 6360, ENTP 6361, and ENTP 6362) toward the 36 semester credit hour MS IE program for progress toward the launch of their venture. Admission to the track is competitive and requires a separate application.

Graduate Certificate in Corporate Innovation

15 semester credit hours minimum

The graduate certificate in corporate innovation is focused on the management of innovation within the context of an established organization. The certificate is designed for students desiring to augment their skills in a technical or functional discipline with the management skills and perspectives necessary for the successful launch of new businesses or other innovations. The certificate may be obtained by completing 15 semester credit hours of study as detailed below:

ENTP 6388 Managing Innovation within the Corporation
Graduate Certificate in New Venture Entrepreneurship

15 semester credit hours minimum

The graduate certificate in new venture entrepreneurship is focused on the management of innovation within the context of a new venture startup. The certificate may be obtained by completing 15 semester credit hours of study as detailed below:

- ENTP 6370 Innovation and Entrepreneurship
- ENTP 6380 Market Entry Strategies
- ENTP 6390 Business Model Innovation
- ENTP 6378 Managing the Emerging Enterprise
- ENTP 6360 Startup Launch I or ENTP 6365 Business Concept Validation

Updated: August 26, 2014 - Visitor: 352
Naveen Jindal School of Management

Master of Science in International Management Studies

36 semester credit hours minimum

Faculty Program List Placeholder

Degree Requirements

The MS degree is obtained by completing satisfactorily a 36 semester credit hour program beyond prerequisite courses for the Jindal School of Management graduate programs. The program provides students the opportunity to learn in-depth the fundamentals of (1) functional areas of management, (2) international management, and (3) cultural, sociopolitical, and geographical constraints affecting international business decisions. It also provides educational opportunities for the student with non-business undergraduate training to prepare for a career in the management of international trade and industry.

Students must maintain a 3.0 grade point average in both core courses and in aggregate courses to qualify for the MS degree.

Course Requirements

Basic Business Core: 8 semester credit hours

All students enrolling in MS IMS must complete the following Basic Business Core Courses:

- ACCT 6201 Introduction to Financial Accounting
- FIN 6301 Financial Management*
- MKT 6301 Marketing Management

1. FIN 6301 Financial Management requires OPRE 6301 as a prerequisite or corequisite or a substantial background in statistics leading to a waiver of the requirement by instructor consent.

IMS Core Courses: 11 semester credit hours

- IMS 6204 Global Business
- IMS 6310 International Marketing
- IMS 6360 International Strategic Management
IMS Electives: 6 semester credit hours

Select a minimum of 6 semester credit hours from the following:

- IMS 6302 Legal Aspects of International Business Transactions
- IMS 6320 International Corporate Finance
  or FIN 6366 International Financial Management
- BPS 6332 Strategic Leadership
- BPS 6V99 Special Topics in Business Policy and Strategy [when topic is Strategic Corporate Social Responsibility]

Free Elective Courses: 11 semester credit hours

Four semester credit hours of area study is strongly recommended. Any course from the set of IMS electives may be used as a free elective. Also, any advanced courses from other departments within the Jindal School of Management may be used as a free elective.

The following are some of the other IMS related courses offered with the Jindal School of Management:

- MKT 6332 Advertising and Promotional Strategy
- IMS 6314 Global E-Business Marketing
- OB 6301 Organizational Behavior
- OB 6303 Managing Organizations
- OB 6307 Strategic Human Resource Management
- OB 6331 Power and Politics in Organizations
- OB 6332 Negotiation and Dispute Resolution
- OB 6333 Managerial Decision Making
- IMS 6340 Managing Strategy and People in International Techno-Creative Industries
- IMS 6341 International Human Resource Management
- IMS 6343 Sustainability in a Global Business Environment

Please select from the following faculty-led study trip courses focusing on specific regional area studies: IMS 6V91, IMS 6V92, IMS 6V93, IMS 6V94, IMS 6V95, IMS 6V96.

Additionally, up to 6 semester credit hours of a graduate level language courses may be applied to your degree plan as a free elective. The following are the list of courses available with the university:

- HUMA 6320 French Review
Areas of Concentration

The MS IMS degree program can be taken by itself or with a concentration in one of the six provided degree program areas. Once students take the 25 semester credit hours (8 semester credit hours of basic business core courses, 11 semester credit hours of IMS foundation course and 6 semester credit hours of IMS elective courses), they can take 11 semester credit hours of free elective courses from the optional electives or the areas of concentration. However, if students decide to take the MS IMS with a specific choice of concentration, the students should take 12 semester credit hours entirely from that specific area of concentration.

Supply Chain Management: 12 semester credit hours

- **OPRE 6332** Spreadsheet Modeling and Analytics
- **OPRE 6366** Global Supply Chain Management
- **OPRE 6362** Project Management in Engineering and Operations
- **OPRE 6370** Global Logistics and Transportation
- **OPRE 6371** Purchasing, Sourcing and Contract Management
- **OPRE 6389** Managing Energy: Risk, Investment, Technology (MERIT)

Human Resources/Organizational Behavior: 12 semester credit hours

- **IMS 6341** International Human Resource Management
- **OB 6301** Organizational Behavior
- **OB 6303** Managing Organizations
- **OB 6307** Strategic Human Resource Management
- **OB 6331** Power and Politics in Organizations
- **OB 6332** Negotiation and Dispute Resolution

Marketing: 12 semester credit hours

- **IMS 6314** Global E-Business Marketing
- **MKT 6309** Marketing Research
- **MKT 6310** Consumer Behavior
- **MKT 6321** Interactive and Digital Marketing

Comment [MV1]: If students take 12 SCH in a concentration, the degree program’s total SCH will be 37. 8 SCH core + 11 SCH IMS foundation + 6 SCH IMS electives + 12 SCH concentration = 37.

Hi Mary Jo,
This is OK. Students may end up with 37 SCH in rare instances. We did not have that many students so far. Because, students take internship courses for 1 or 2 SCH and it all works out to 36 SCH.

I am also working with the program director to revise the entire degree plan for next cycle. I have had a few meetings so far and we are enhancing the program and that will only be 36 SCH.
MKT 6332 Advertising and Promotional Strategy
**Finance: 12 semester credit hours**

- **FIN 6308** Regulation of Business and Financial Markets
- **FIN 6310** Investment Management
- **FIN 6320** Financial Markets and Institutions
- **FIN 6322** Real Estate Finance and Investment
- **FIN 6330** Behavioral Finance
- **FIN 6336** International Financial Management

**Innovation and Entrepreneurship: 12 semester credit hours**

- **ENTP 6315** Entrepreneurial Finance
- **ENTP 6370** Innovation and Entrepreneurship
- **ENTP 6375** Technology and New Product Development
- **ENTP 6380** Market Entry Strategies
- **ENTP 6388** Managing Innovation within the Corporation
- **ENTP 6390** Business Model Innovation

**Information Management Technology: 12 semester credit hours**

- **MIS 6309** Business Data Warehousing
- **MIS 6319** Enterprise Resource Planning
- **MIS 6320** Database Foundations
- **MIS 6324** Business Intelligence Software and Techniques
- **MIS 6334** Advanced Business Intelligence
- **MIS 6344** Web Analytics

**Foreign Study Trips**

The Jindal School of Management encourages all students studying for the MS degree to master one foreign language. However, equally important is direct experience of business practices in a foreign country. UT Dallas has organized study abroad opportunities in Latin America, Western Europe, Asia, Africa, North America, and Eastern Europe. Foreign study courses, usually offered between semesters, vary in length from two to three weeks and are generally taken as part of an Area Studies course. Area study course is preceded by two weeks of seminar and followed by two weeks of post-trip seminar. Regional Area Studies course(s) may be repeated for credit if regions of study differ.
**Program Notes**

Students are encouraged to complete the basic core courses before beginning the advanced core courses. International Strategic Management (IMS 6360) serves as the capstone course and should be taken during the last semester prior to graduation. The classes for this degree are largely offered in the evenings.
Naveen Jindal School of Management

Master of Science in Information Technology and Management

36 semester credit hours minimum

Faculty Program List Placeholder

Degree Requirements

The Master of Science in Information Technology Management (MS ITM) degree requires a minimum of 36 semester credit hours, consisting of basic business courses, IT foundation courses, IT elective courses, and free electives. The business core courses are designed to provide incoming students with the context to better appreciate and understand the complex issues that occur at the interface between IT and business.

The IT foundation courses cover the essentials of IT knowledge that any student must possess. The IT elective courses provide in-depth knowledge of the technology and technology management issues. In addition, students may choose approved electives that maximize their individual educational and professional goals. The program also offers opportunities for students to concentrate in specific tracks such as ‘Enterprise Systems,’ ‘Business Intelligence and Analytics,’ ‘IT Consulting and Services Management,’ ‘Healthcare Systems,’ and ‘Cybersecurity Management,’ depending on their interests and goals. Students can contact the advising office for the recommended courses for these tracks.

Students must maintain a 3.0 grade point average in both core courses and in aggregate courses to qualify for the MS degree.

Course Requirements

Basic Business Core Courses: minimum of 9 semester credit hours from the following

- ACCT 6305 Accounting for Managers
- FIN 6301 Financial Management
- MECO 6303 Business Economics
- MKT 6301 Marketing Management
- OPRE 6301 Quantitative Introduction to Risk and Uncertainty in Business
- OPRE 6302 Operations Management

Deleted: ‘Information Security and Assurance’

Deleted: ‘’
OB 6301 Organizational Behavior

IT Foundation Courses: 12 semester credit hours

- MIS 6316 Data Communications
- MIS 6323 Object Oriented Programming
- MIS 6326 Data Management
- MIS 6308 Systems Analysis and Project Management

IT Electives: 9 semester credit hours

Choose 9 semester credit hours from the following list of courses that have an MIS prefix, excluding MIS 6204 and MIS 6320.

- MIS 6302 Information Technology Strategy and Management
- MIS 6309 Business Data Warehousing
- MIS 6311 Cybersecurity Fundamentals
- MIS 6317 Healthcare Informatics
- MIS 6319 Enterprise Resource Planning
- MIS 6324 Business Intelligence Software and Techniques
- MIS 6330 Information Technology Security
- MIS 6332 Advanced ERP: Sales and Distribution
- MIS 6334 Advanced Business Intelligence
- MIS 6338 Accounting Systems Integration and Configuration
- MIS 6344 Web Analytics
- MIS 6352 Web Systems Design and Development
- MIS 6360 Agile Project Management
- MIS 6362 Service Oriented Computing
- MIS 6363 Cloud Computing
- MIS 6364 Enterprise IT Architecture
- MIS 6369 Supply Chain Software
- MIS 6372 IT Services Management
- MIS 6373 Social Media and Business
- MIS 6378 Enterprise Systems and CRM
- MIS 6380 Data Visualization
- BUAN 6390 Analytics Practicum
- MIS 6V98 Information Systems Internship
Free Electives: 6 semester credit hours

Any course from the set of IT electives may be used as a free elective. In addition, any course from the set of business core courses, or any other graduate level business course, except MIS 6204 and MIS 6320 may be used as a free elective.

Graduate Certificate in Health Information Technology

9 semester credit hours

The graduate certificate in health information technology emphasizes practical concepts in healthcare IT and hands on experience gained using electronic medical records (EMR) software. The focus will be on identification and understanding the key information required for managing and working with healthcare information systems. It also demonstrates the use of analytics and software tools related to healthcare information to develop sound healthcare decisions, particularly the core functionalities the EMR software platform, including how to support clinical information workflows in a paperless environment, and the interconnectivity with other clinical and business systems.

Courses required for graduate certificate in health information technology (9 semester credit hours)

- HMGT 6323 Health Informatics
- HMGT 6327 Information and Knowledge Management in Healthcare
- HMGT 6334 Healthcare Analytics

Graduate Certificate in Enterprise Systems

9 semester credit hours

The graduate certificate in enterprise systems emphasizes theoretical concepts in enterprise resource planning and hands on experience using the SAP software. It provides broad exposure to various SAP functional modules such as Sales and Distribution, Supply Chain Management, Customer Relationship Management, Procurement, Human Capital Management, Accounting, and Data Warehousing. Furthermore, the certificate program provides students with an opportunity to get an in-depth knowledge of two of these modules.

The graduate certificate in enterprise systems is awarded after completion of MIS 6319 Enterprise Resource Planning, and two of the courses listed below.

- MIS 6309 Business Data Warehousing
- MIS 6332 Advanced ERP: Sales and Distribution
- MIS 6338 Accounting Systems Integration and Configuration
- MIS 6369 Supply Chain Software
Graduate Certificate in Business Intelligence and Data Mining

12 semester credit hours

The graduate certificate in business intelligence provides students with an understanding of how to analyze large complex data sets in order to solve business problems. It emphasizes theoretical concepts and clinical knowledge associated with the design, delivery and use of business intelligence and data mining techniques in organizations.

Required courses: 12 semester credit hours

- **OPRE 6301** Quantitative Introduction to Risk and Uncertainty in Business
- **MIS 6324** Business Intelligence Software and Techniques
- **MIS 6334** Advanced Business Intelligence (with SAS)
- **MIS 6309** Business Data Warehousing (ITM Majors Only)
  or **MIS 6320** Database Foundations (non-ITM Majors Only)
Naveen Jindal School of Management

Master of Science in Management and Administrative Sciences

36 semester credit hours minimum

Faculty Program List Placeholder

Degree Requirements

The MS in Management and Administrative Sciences (MS MAS) degree is flexible and allows students to design a program of study that fits their specific needs. Students complete a 36 semester credit hour program, beyond prerequisite courses, consisting of 10 semester credit hours of basic core courses and 26 semester credit hours of graduate level electives. Students must maintain a 3.0 grade point average in both core courses and in aggregate courses to qualify for the MS degree.

Students should be aware that separate Master of Science programs, with varying core and elective requirements exist in the following areas:

- Accounting
- Business Analytics
- Energy Management
- Finance
- Healthcare Management
- Information Technology and Management
- Innovation and Entrepreneurship
- International Management Studies
- Marketing
- Supply Chain Management

For the MS MAS degree program, students choose their own course of study, pulling courses from the Jindal School of Management graduate catalog.

NOTE: The Executive Education area of the Jindal School of Management offers three additional and separate MS MAS programs, which retain the same set of core courses but have their own set of specific topical electives. These include (1) the MS MAS with an emphasis in project management, (2) the Executive Healthcare MS MAS and (3) the MS MAS with an emphasis in Organizational Behavior and Coaching.
These are described in the Executive Education section under the Jindal School of Management graduate programs in the graduate catalog. All three programs are supported entirely by participant fees and special admissions requirements apply.

Course Requirements

Basic Core Courses: 10 semester credit hours

Each candidate must satisfactorily complete the following 10 semester credit hours basic core:

- **ACCT 6201** Introduction to Financial Accounting
- **MECO 6303** Business Economics
- **MIS 6204** Information Technology and Management
- **OPRE 6301** Quantitative Introduction to Risk and Uncertainty in Business

Elective Courses: 26 semester credit hours

A student's course of study beyond the core can be determined in consultation with faculty members, area coordinators, or the advising office. Student may continue to generalize in management courses or choose to concentrate in a given subject that has historically been offered as defined specialties in the master's programs. Concentration is an informal collection of electives that address a student's educational goals and may be aligned with functional area specialties, or may cut across functional areas. Each concentration has minimum of 15 semester credit hours in a given area such as:

**Accounting:** In today's global and technology-driven environment, managers need skills to effectively analyze accounting information and make value-enhancing decisions. Students may select accounting courses to concentrate in financial analysis, consulting, corporate governance and tax management. This concentration can be further refined to the areas of assurance services, taxation and internal audit.

**Business Analytics:** A concentration in business analytics covers statistics and econometrics, predictive modeling, decision and optimization (prescriptive) modeling, and data management. Students are prepared for a position within Marketing Analytics, Decision and Operations Analytics, Financial Analytics, Healthcare Analytics, and IT Analytics.

**Energy Management**

The Energy Management concentration will provide students with skills critical to managerial decision making within energy companies, focusing on supply chain, operations, finance, and risk management.

**Finance:** Students can prepare for careers in corporate finance, investment management, or the management of financial institutions. Courses in this area emphasize creative solutions to business
financial problems, the development of value maximizing investment and financing strategies, and the analysis and management of fixed income and equity investments. Students may choose to concentrate in either corporate financial planning or the analysis of financial securities and investment portfolios.

**Healthcare Management:** The primary goal of this concentration is to prepare students for leadership positions in healthcare organizations. The healthcare concentration is cross-functional and industry focused. Courses include cases, projects and assignments that are centered around applying management skills to healthcare issues and organizations. Classes are taught by faculty and healthcare executives who bring special expertise and experience to the program.

**Information Technology Management:** Information technology is integral to all business operations and permeates all aspects of modern business and our courses will enable students to fully utilize information technology to solve business problems and gain strategic advantage. Advanced courses provide skills necessary for the “supply” side of information technology for IT consulting, software management and e-business.

**Internal Audit:** Today’s job market for individuals in internal audit and risk management is exceptional. A concentration in this area covers internal audit from a broad perspective and addresses review of business processes, technology, governance, ethics, risk assessment and auditing standards, which allows individual to work in any industry or discipline.

**Innovation and Entrepreneurship:** The concentration in Innovation and Entrepreneurship prepares students for successful business careers in entrepreneurial new ventures, entrepreneurial finance (venture capital/private equity), or innovation-related roles in mature organizations (product planning, product marketing, product development, etc.). The concentration permits students to pursue electives in either the new venture focus area or the innovation within the corporation focus area.

**International Management:** In today’s global economy, there is a need to develop skills in various international business environments. Students can take a multidisciplinary approach to study the international management, with courses in finance, marketing, strategic management, legal and cross-cultural management. These integrate concepts and theories with international policies and business practices and prepare students to succeed in developing successful international ventures.

**Leadership in Organizations:** The leadership concentration prepares students for management positions through the study of the psychological, sociological and organizational behavior disciplines. The program provides a foundation of leadership theory, building and problem solving in interpersonal work relationships, group dynamics, organizational decision-making and change and ethics.

**Marketing:** Students learn to understand customers’ needs and purchase behaviors, how to satisfy those needs, and how to make a profit in competitive industries and markets. Topics include developing an effective marketing strategy, developing new products and managing different brands and product categories. Students can also acquire expertise in pricing, advertising and promotions, market research, and retailing strategies.

**Real Estate:** The real estate concentration will provide students with both a practical and educational base to become skilled decision-makers within the industry. This concentration includes courses in real estate finance and capital markets, covering real estate loans, syndication, securitization, regulation, investment and analysis, combining lectures and case studies to explore the sources of real estate value, project feasibility, financing problems, the development of value maximizing investment and financing strategies, and the analysis and management of fixed income and equity investments. Students may choose to concentrate in either corporate financial planning or the analysis of financial securities and investment portfolios.
strategies for financing, and portfolio management while covering market analysis, government approvals, financing and risk assessment.

Strategic Management: This concentration focuses on corporate level strategic management, including implementation of strategic designs; top management team leadership; the strategic implications of the social, governmental, technological, and international environments; organization structuring and strategic alliances. Students will learn how to integrate accounting, finance, economics and organization theory to create sustainable competitive advantage.

Supply Chain Management: Students specializing in supply chain management gain an analytical understanding of how to leverage profits by continuously improving business processes. Effective integration of customers, suppliers, factories and stores through the coordination of various functional areas (marketing, finance, procurement) is an important theme. The area emphasizes using incentives, contracts and information technologies to foster efficiency and success.

Systems Engineering and Management: The concentration is designed to meet the need for formalized education in design, engineering and management of complex systems involving a large number of interconnected components. It will develop a broad range of engineering and managerial skills that trains students to be managers of large projects that require expertise in both technical and managerial disciplines.
Naveen Jindal School of Management

Master of Science in Marketing

36 semester credit hours minimum

Faculty Program List Placeholder

Degree Requirements

The Master of Science in Marketing program is designed to meet the needs of students in today's data driven marketplace, where the exponential growth in data generated from store scanners and web transactions, navigation, search, and more recently, social media, requires new marketing skills and knowledge. Students may choose any of the tracks below as part of their degree program.

- Advertising and Brand Management
- Business Development and Sales
- Digital Advertising and Marketing
- Marketing Analytics and Customer Insights
- Marketing Management
- Product Management

The Master of Science in Marketing is designed for students with or without previous educational background in this area. Courses are primarily offered in the late afternoon and evenings of weekdays. Several courses are currently offered online.

At least 36 semester credit hours of management coursework is required for the Master of Science degree, including six semester credit hours of business core courses, nine semester credit hours of marketing core courses and twenty one semester credit hours of marketing focused core courses and/or electives depending on the track chosen.

Students can obtain a dual MS and MBA degree by taking a total of 63 semester credit hours (assuming they meet all the degree requirements for both programs). Students must maintain a 3.0 grade point average in both core courses and in aggregate courses to qualify for the MS degree.

Prerequisites

Calculus is not a requirement or prerequisite for the MS in Marketing degree program.
Course Requirements

Business Core Courses: 6 semester credit hours

- MKT 6301 Marketing Management
- OPRE 6301 Quantitative Introduction to Risk and Uncertainty in Business

Marketing Core Courses: 9 semester credit hours

- MKT 6309 Marketing Research
- MKT 6310 Consumer Behavior
- MKT 6339 Capstone Marketing Decision Making
  or MKT 6350 Competitive Marketing Strategy

Specialized Tracks: 21 semester credit hours

Choose from one of the following four specialized tracks or from the Marketing Management Track

Advertising and Branding Track

Advertising and Branding Core Courses (12 semester credit hours)

- MKT 6321 Interactive and Digital Marketing
- MKT 6330 Brand Management
- MKT 6332 Advertising and Promotional Strategy
- MKT 6335 Advertising Research

Advertising and Branding Elective Courses (select 9 semester credit hours)

- MKT 6323 Database Marketing
- MKT 6340 Marketing Projects Lab
- MKT 6341 Marketing Campaign Management Lab
- MKT 6342 Data Visualization and Customer Insights Development
- MKT 6343 Content and Social Media Marketing
- MKT 6350 Competitive Marketing Strategy
- MKT 6355 Marketing Digital Lab
- MKT 6V98 Marketing Internship
- MIS 6344 Web Analytics
- MIS 6373 Social Media and Business

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Business Development and Sales

Business Development and Sales Core Classes (12 semester credit hours)

- **MKT 6331** Building and Managing Professional Sales Organizations
- **MKT 6334** Digital Sales Strategy
- **MKT 6382** (ENTP 6382) Professional Selling I
- **MKT 6383** Professional Selling II

Electives (select 9 semester credit hours)

- **MKT 6321** Interactive and Digital Marketing
- **MKT 6323** Database Marketing
- **MKT 6331** Building and Managing Professional Sales Organizations
- **MKT 6333** Channels of Distribution and Retailing
- **MKT 6338** Enterprise Systems and CRM
- **MKT 6341** Marketing Campaign Management Lab
- **MKT 6342** Data Visualization and Customer Insights Development
- **BPS 6360** Management and Organizational Consulting: Theory and Practice
- **OB 6332** Negotiation and Dispute Resolution

Digital Advertising and Marketing Track

Digital Advertising and Marketing Core Courses (12 semester credit hours)

- **MKT 6321** Interactive and Digital Marketing
- **MKT 6334** Digital Sales Strategy
- **MKT 6341** Marketing Campaign Management Lab
- **MKT 6365** Marketing Digital Lab

Elective Options for Digital Advertising and Marketing (select 9 semester credit hours)

- **IMS 6314** Global E-Business Marketing
- **MKT 6323** Database Marketing
- **MKT 6332** Advertising and Promotional Strategy
MKT 6335 Advertising Research
MKT 6338 Enterprise Systems and CRM
MKT 6340 Marketing Projects Lab
MKT 6342 Data Visualization and Customer Insights Development
MKT 6343 Content and Social Media Marketing
MKT 6V98 Marketing Internship
MIS 6344 Web Analytics
MIS 6373 Social Media and Business

Marketing Analytics and Market Research Track

Marketing Analytics and Market Research Core Courses (18 semester credit hours)

- MKT 6323 Database Marketing
- OPRE 6332 Spreadsheet Modeling and Analytics
- MIS 6324 Business Intelligence Software and Techniques

Elective Options for Marketing Analytics and Customer Insights (select 12 semester credit hours from one focus area)

**Analytics Focus (12 semester credit hours)**

- MKT 6337 Marketing Predictive Analytics using SAS
- MKT 6340 Marketing Projects Lab
- MKT 6362 Marketing Models
- MKT 6V98 Marketing Internship (1-3 credit hours)
- MIS 6309 Business Data Warehousing (with SAP)
- MIS 6334 Advanced Business Intelligence (with SAS)
- BUAN 6390 Analytics Practicum
- OPRE 6398 Prescriptive Analytics
- ME CO 6312 Applied Econometrics and Time Series Analysis
- MIS 6326 Data Management or MIS 6320 Database Foundations

Or

**Customer Insights Focus (12 semester credit hours)**

- MKT 6321 Interactive and Digital Marketing
- MKT 6335 Advertising Research
- MKT 6336 Pricing
- MKT 6338 Enterprise Systems and CRM
- MKT 6341 Marketing Campaign Management Lab
- MKT 6342 Data Visualization and Customer Insights Development
- MKT 6343 Content and Social Media Marketing
- MKT 6V98 Marketing Internship (1-3 credit hours)
BPS 6360 Management and Organizational Consulting: Theory and Practice  
MIS 6344 Web Analytics  
MIS 6372 IT Services Management

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<thead>
<tr>
<th>Product Management Track</th>
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<tbody>
<tr>
<td>Product Management Core Courses (12 semester credit hours)</td>
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<tr>
<td>MKT 6329 New Product Development</td>
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<tr>
<td>MKT 6330 Brand Management</td>
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<tr>
<td>MKT 6336 Pricing</td>
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<tr>
<td>MKT 6362 Marketing Models</td>
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Elective Options for Product Management (select 9 semester credit hours)

| IMS 6310 International Marketing |
| MKT 6331 Building and Managing Professional Sales Organizations |
| MKT 6332 Advertising and Promotional Strategy |
| MKT 6333 Channels of Distribution and Retailing |
| MKT 6334 Digital Sales Strategy |
| MKT 6340 Marketing Projects Lab |
| MKT 6341 Marketing Campaign Management Lab |
| MKT 6342 Data Visualization and Customer Insights Development |
| MKT 6350 Competitive Marketing Strategy |
| MKT 6360 Services Marketing |
| MKT 6380 Market Entry Strategies |
| MKT 6V98 Marketing Internship |
| OPRE 6362 Project Management in Engineering and Operations |

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MIS 6309 Business Data Warehousing (with SAP)  
MIS 6334 Advanced Business Intelligence (with SAS)

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Marketing Management Track: 21 semester credit hours

For this track, there are no track core courses. Students may select any 21 semester credit hours from the offerings listed below; however, at least 9 semester credit hours must be from the marketing area courses (i.e. have a MKT prefix in the course number).

Marketing Area Courses (at least 9 semester credit hours)

- MKT 6321 Interactive and Digital Marketing
- MKT 6323 Database Marketing
- MKT 6328 Product Management
- MKT 6329 New Product Development
- MKT 6330 Brand Management
- MKT 6331 Building and Managing Professional Sales Organizations
- MKT 6332 Advertising and Promotional Strategy
- MKT 6333 Channels of Distribution and Retailing
- MKT 6334 Digital Sales Strategy
- MKT 6335 Advertising Research
- MKT 6336 Pricing
- MKT 6337 Marketing Predictive Analytics Using SAS
- MKT 6338 Enterprise Systems and CRM
- MKT 6340 Marketing Projects Lab
- MKT 6341 Marketing Campaign Management Lab
- MKT 6342 Data Visualization and Customer Insights Development
- MKT 6343 Content and Social Media Marketing
- MKT 6350 Competitive Marketing Strategy
- MKT 6360 Services Marketing
- MKT 6362 Marketing Models
- MKT 6365 Marketing Digital Lab
- MKT 6380 Market Entry Strategies
- MKT 6383 Professional Selling II
- MKT 6V98 Marketing Internship
Non-Marketing Area Courses

- **ACCT 6201** Introduction to Financial Accounting (dual MS MKT MBA only)
- **ACCT 6305** Accounting for Managers (dual MS MKT MBA only)
- **BPS 6360** Management and Organizational Consulting: Theory and Practice
- **ENTP 6370** Innovation and Entrepreneurship
- **ENTP 6375** Technology and New Product Development
- **ENTP 6382** Professional Selling
- **ENTP 6390** Business Model Innovation
- **FIN 6301** Financial Management (dual MS MKT MBA only)
IMS 6310 International Marketing
IMS 6314 Global E-Business Marketing
IMS 6360 International Strategy
MECO 6312 Applied Econometrics
MIS 6302 Information Technology Strategy and Management
MIS 6309 Business Data Warehousing
MIS 6324 Business Intelligence Software and Techniques
MIS 6326 Database Management
MIS 6334 Advanced Business Intelligence (with SAS)
MIS 6344 Web Analytics
MIS 6373 Social Media and Business
MIS 6390 Analytics Practicum
OB 6301 Organizational Behavior (dual MS MKT MBA only)
OB 6332 Negotiation and Dispute Resolution
OPRE 6302 Operations Management
OPRE 6332 Spreadsheet Modeling and Analytics
OPRE 6362 Project Management in Engineering and Operations
OPRE 6371 Purchasing, Sourcing, Contract Management
OPRE 6398 Prescriptive Analytics

Updated: August 26, 2014 - Visitor: 339
Naveen Jindal School of Management

Master of Science in Supply Chain Management

36 semester credit hours minimum

Faculty Program List Placeholder

Degree Requirements

The Master of Science in Supply Chain Management (MS SCM) is an [STEM](http://catalog.utdallas.edu/2015/graduate/programs/jsom/supply-chain-management) (Science, Technology, Engineering and Mathematics) degree program that explores the key issues associated with the design and management of industrial supply chains, including methods for improving supply chain operations by lowering costs and improving quality. The depth of our supply chain program uniquely prepares students to be the next generation business leaders with skills and competencies necessary to perform across functions within an organization. Students gain business management knowledge and analytical decision-making skills (especially for complex systems) along with real-life experiences through industry projects.

The MS SCM program is designed for students with or without previous educational background in supply chain management. Students must maintain a 3.0 grade point average in both core courses and in aggregate courses to qualify for the MS degree. Students can also obtain a dual MS SCM/MBA degree by successfully completing a total of 63 semester credit hours (if all prerequisites are met).

Prerequisites

Calculus is required as a graduate program prerequisite. Candidates that have not taken an equivalent course will need to complete **OPRE 6303** with a grade of "B" or better to meet the calculus requirement.

Course Requirements

Basic Business Core Courses: 9 semester credit hours

- **OPRE 6301** Quantitative Introduction to Risk and Uncertainty in Business
- **OPRE 6302** Operations Management

And choose one course from the following courses:

- **ACCT 6305** Accounting for Managers
- **FIN 6301** Financial Management

Supply Chain Management Core Courses: 9 semester credit hours
Supply Chain Management Elective Courses: 18 semester credit hours

- **OPRE 6V98** Supply Chain Management Internship
- **OPRE 6325** Healthcare Operations Management
- **OPRE 6332** Spreadsheet Modeling and Analytics
- **OPRE 6335** Risk and Decision Analysis
- **OPRE 6340** Flexible Manufacturing Strategies
- **OPRE 6341** Retail Operations
- **OPRE 6355** Experimental Management Sciences
- **OPRE 6362** Project Management in Engineering and Operations
- **OPRE 6363** Inventory Control
- **OPRE 6364** Quality Control (Lean Six Sigma)
- **OPRE 6367** Capstone Projects in Supply Chain Management
- **OPRE 6368** Industrial Applications in Supply Chains
- **OPRE 6369** Supply Chain Software (SAP APO)
- **OPRE 6377** Demand and Revenue Management
- **OPRE 6378** Supply Chain Strategy
- **OPRE 6379** Product Lifecycle Management
- **OPRE 6380** Models of Energy Markets
- **OPRE 6381** Engineering Packaged Goods Distribution
- **OPRE 6382** Managing Energy: Risk, Investment, Technology (MERIT)
- **OPRE 6383** Prescriptive Analytics

**Free Elective (optional):** As part of the 18 semester credit hours elective courses, students may choose an SCM international trip or any three semester credit hour graduate level course offered within JSOM as a free elective course.
1. Executive Education students may take FIN 6301 course as an elective with a prior approval of the program director.

Updated: August 26, 2014 - Visitor: 404
Naveen Jindal School of Management

Master of Science in Systems Engineering and Management (MS-SEM)

36 semester credit hours minimum

Degree Requirements

The MS-SEM program is designed to be flexible to accommodate different student backgrounds, allowing students to pick up areas in which they are deficient, while still guaranteeing core competency in systems engineering and systems management. This program has both a thesis and a non-thesis option. All part-time MS-SEM students will be assigned initially to the non-thesis option. Those wishing to elect the thesis option may do so by obtaining the approval of a faculty thesis supervisor.

The MS-SEM degree requires a total of 36 semester credit hours consisting of 12 courses in the non-thesis option or 10 courses plus six semester credit hours of thesis credit for the thesis option. All students must have an academic advisor and an approved degree plan. Courses taken without advisor approval will not count toward the 36 semester credit hour requirement. Successful completion of the approved course of studies leads to the MS-SEM degree. Please also note that the university's general degree requirements are discussed elsewhere in the graduate catalog.

Non-Thesis Option

Completion of a minimum of 36 semester credit hours of graduate level lecture courses including the required core courses. With advisor approval, these may include some 5000 level courses. Students must earn a grade of "B" or better in each of four core courses (see below).

Thesis Option

An alternative to 36 semester credit hours required for the MS-SEM degree, would be the completion of a minimum of 30 semester credit hours of graduate level lecture courses, with a grade of "B" or better in each of the required core courses (see below), six semester credit hours of a combination of Master's research (SYSM 6V70) and thesis (SYSM 6V90), submitted to the graduate school, and a formal public defense of the thesis.

Students enrolled in the thesis option should meet with individual faculty members to discuss research opportunities and to choose a research advisor during the first or second semester that the student is enrolled. After the second semester of study, course selection should be made in consultation with the research advisor. Part-time students are encouraged to enroll in only one course during their first semester and in no more than two courses during any semester they are also working full-time. Research and thesis semester credit hours cannot be counted in an MS-SEM degree plan unless a thesis is written and successfully defended. A supervising committee, which must be chosen in consultation with the student's advisor, must approve the thesis.
thesis advisor prior to enrolling for thesis credit, administers the defense. With advisor approval, the lecture courses may include some 5000 level courses. Full-time students at UT Dallas who receive financial assistance are required to enroll in nine semester credit hours each semester.

Course Requirements

Core Courses: 12 semester credit hours

Students are required to take four courses (a total of 12 semester credit hours) from a set of eight courses from the lists below. Two of the courses must be from the Engineering Core section and two from the Management Core section. The four required courses contribute a total of 12 semester credit hours toward the MS degree.

Engineering Core Courses

SYSM 6301 Systems Engineering, Architecture and Design
SYSM 6302 Dynamics of Complex Networks and Systems
SYSM 6303 Quantitative Introduction to Risk and Uncertainty in Business
SYSM 6305 Optimization Theory and Practice

Management Core Courses

SYSM 6311 Systems Project Management in Engineering and Operations
SYSM 6312 Systems Financial Management
SYSM 6318 Marketing Management
SYSM 6333 Systems Organizational Behavior

Prescribed Elective Courses: 12 semester credit hours

Students are required to take an additional four courses (a total of 12 semester credit hours) from the set of eight core courses listed above and/or the set of courses listed below. Two of these courses must be chosen from the two Engineering sections (core and elective), and two from the two Management sections (core and elective). Because a program objective is to maintain a high degree of flexibility, students are encouraged to work with an MS-SEM program advisor to discuss possible (limited) exceptions and substitutions for the prescribed elective courses.

Engineering Elective Courses

SYSM 6304 Risk and Decision Analysis
SYSM 6306 Engineering Systems: Modeling and Simulation
SYSM 6307 Linear Systems
**SYSM 6308** Software Maintenance, Evolution, and Re-Engineering  
**SYSM 6309** Advanced Requirements Engineering  
**SYSM 6310** Software Testing, Validation and Verification  
**SYSM 6321** Financial Engineering I  
**SYSM 6325** Requirements Development and Integration for Complex Systems  

**Management Elective Courses**  
**SYSM 6313** Systems Negotiation and Dispute Resolution  
**SYSM 6315** The Entrepreneurial Experience  
**SYSM 6316** Managing Innovation within the Corporation  
**SYSM 6317** The Management of High Tech Products  
**SYSM 6319** Business Economics  
**SYSM 6320** Strategic Leadership  
**SYSM 6332** Technology and New Product Development  
**SYSM 6334** Systems Operations Management  

**Free Elective Courses: 12 semester credit hours**  
Working with an MS-SEM program advisor, students are required to take four additional and distinct courses either from the remaining SYSM courses listed above or from other courses offered in management or engineering that form a "concentration" or "specialization" in systems related, possibly industry-specific sectors.  

The concentration area consists of four courses (12 semester credit hours) in the degree program; examples include: Control and Mechatronic Systems, Cybersecurity and Information Assurance, Energy and Infrastructure Systems, Enterprise and Data Management Systems, Entrepreneurship and Innovation Management, Global Supply Chain Management, Healthcare and Biomedical Systems, Optimization and Operations Research, Telecom, IT and Multimedia Networks, and Transportation Systems. Finally, because of the flexible nature of the MS-SEM degree program, students may submit for approval a "personalized" concentration area that focuses on aspects of systems engineering, and may combine elements of other concentration areas on a focused theme.

**SEM Graduate Certificates**  
Each certificate requires 12 semester credit hours. The courses are offered in an Executive Education (4 semester credit hour module format).
Graduate Certificate in Systems Engineering

12 semester credit hours

The graduate certificate in systems engineering requires students to complete over the period of one academic year two courses from the set of engineering courses listed below, and any two additional courses from the remainder of the 20 SYSM prefix courses listed below in either group, engineering or management.

**Systems Engineering Courses**

- SYSM 6301 Systems Engineering, Architecture and Design
- SYSM 6302 Dynamics of Complex Networks and Systems
- SYSM 6303 Quantitative Introduction to Risk and Uncertainty in Business
- SYSM 6304 Risk and Decision Analysis
- SYSM 6305 Optimization Theory and Practice
- SYSM 6306 Engineering Systems: Modeling and Simulation
- SYSM 6307 Linear Systems
- SYSM 6308 Software Maintenance, Evolution, and Re-Engineering
- SYSM 6309 Advanced Requirements Engineering
- SYSM 6310 Software Testing, Validation and Verification
- SYSM 6321 Financial Engineering I

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Comment [SA5]:
On 02/16/15 Rajiv removed this course and added 6325.

Graduate Certificate in Systems Management

12 semester credit hours

The graduate certificate in systems management requires students to complete over the period of one academic year two courses from the set of management courses listed below, and any two additional courses from the remainder of the 20 SYSM-prefix courses listed in either group, engineering or management.

**Systems Management Courses**

- SYSM 6311 Systems Project Management in Engineering and Operations
- SYSM 6312 Systems Financial Management
- SYSM 6313 Systems Negotiation and Dispute Resolution
Graduate Certificate in Cybersecurity Systems

12 semester credit hours

The graduate certificate in Cybersecurity Systems Certificate (CCSS) is offered by the Erik Jonsson School of Engineering and Computer Science and Jindal School of Management. The CCSS may be combined with other courses and/or certificates toward an MS degree, such as Computer Science, Information Technology and Management, or Systems Engineering and Management, provided that the student has gained admission into that particular program.

To earn the certificate, students in the program must take four courses with an overall GPA of 3.0.

Required Course (3 semester credit hours)

MIS 6311 Cybersecurity Fundamentals

Track #1: Computer Science (CS) Emphasis (9 semester credit hours)

Students can choose three courses from the following:

CS 6324 Information Security
CS 6349 Network Security
CS 6348 Data and Applications Security

Or a course from a list of existing cybersecurity systems in Computer Science courses (offered periodically, and must be approved)

Track #2: Internal Audit, Information Management (IA/IM) Emphasis (9 semester credit hours)

Students must take MIS 6330 and ACCT 6336, and choose between ACCT 6380 or MIS 6363; MIS 6330 Information Technology Security
ACCT 6336 Information Technology Audit and Risk Management
ACCT 6380 Internal Audit or MIS 6363 Cloud Computing

Track #3: Systems Engineering and Management Emphasis (9 semester credit hours)

Students must take SYSM 6301, and choose between CS 6324 or MIS 6330:
   SYSM 6301 Systems Engineering, Architecture and Design
   CS 6324 Information Security or MIS 6330 Information Technology Security

Students can choose at least one course from each of the CS and IA/IM tracks from the following:
   CS 6348 Data and Applications Security (CS track)
   CS 6349 Network Security (CS track)
   MIS 6363 Cloud Computing (CS track)
   ACCT 6336 Information Technology Audit and Risk Management (IA/IM track)
   ACCT 6380 Internal Audit (IA/IM track)
Naveen Jindal School of Management

Combination of Engineering and Management Graduate Degrees

Today's graduates aspiring to assume managerial and leadership positions in high tech firms and research institutions must be knowledgeable in both the engineering and managerial dimensions of the position. In recognition of this growing reality, UT Dallas offers a blend of courses allowing students to earn a combination of master's level degrees in both engineering and management. Specifically, graduates of this program will qualify to earn a MSEE degree in combination with a MBA or a degree in Management.

Faculty

The combination of master's level degrees in both engineering and management are jointly administered by the faculty members in the Department of Electrical Engineering in the Erik Jonsson School of Engineering and Computer Science and the Naveen Jindal School of Management.

Objectives

The program of studies leading to the award of a MSEE degree by the Erik Jonsson School of Engineering and Computer Science in combination with one of the following master's degrees, MBA or MS, offered by the Naveen Jindal School of Management, provides intensive preparation for engineers who seek knowledge and skills necessary to manage a technology firm. This program emphasizes both Electrical Engineering and Engineering Management, preparing students for a career in management and for holding leadership positions in engineering companies and research institutions. The program of studies is ideal for students interested in managing new technologies, from conceptualization and development to introduction and production.

Admission and Degree Requirements

The university's general admission requirements are discussed on the Graduate Admission page. Student pursuing the MSEE degree in combination with a master's degree in management must meet the admission requirements for both graduate programs. The university's general degree requirements are discussed on the Graduate Policies and Procedures page. For this program of studies, the Jindal School of Management will accept a competitive GRE performance in lieu of the GMAT.

Combination of MSEE and MBA graduate degrees

68 semester credit hours minimum
The combination of MSEE and MBA degrees can be earned by completing a minimum of 68 graduate semester credit hours beyond prerequisite courses. This includes a minimum of 24 semester credit hours of approved electrical engineering (EE) courses in combination with a minimum of 44 semester credit hours of approved management courses.

Students enrolled in this combination of MSEE and MBA degree programs are permitted to:

• utilize a maximum of 9 semester credit hours from the approved list of management courses together with 12 semester credit hours of approved elective EE courses to satisfy the required 21 semester credit hours of elective courses listed in the MSEE degree requirements, and

• utilize a maximum of 9 semester credit hours from the approved list of EE courses together with 15 semester credit hours of approved elective MBA courses to satisfy the 24 semester credit hours of elective courses listed in the MBA degree requirements.

Students are required to meet all other core and elective requirements for the MSEE and MBA degrees to obtain the combination of the MSEE with MBA graduate degrees.

Combination of MSEE with MS graduate degrees

51 minimum semester credit hours

The combination of MSEE and MS degrees can be earned by completing a minimum of 51 semester credit hours beyond prerequisites. This includes a minimum of 24 semester credit hours of approved electrical engineering courses in combination with a minimum of 27 semester credit hours of approved management courses for each of these management degrees.

Students enrolled in a combination of the MSEE and MS degree programs are permitted to:

• utilize a maximum of 9 semester credit hours from the approved list of management courses together with 12 semester credit hours of approved elective EE courses to satisfy the required 21 semester credit hours of elective courses listed in the MSEE degree requirements, and

• utilize a maximum of 9 semester credit hours from the approved list of EE courses in satisfying elective courses requirements for the MS degree requirements.

Students are required to meet all other core and elective requirements for the MSEE and MS degrees to obtain the combination of MSEE with MS graduate degrees.

All students must have a graduate advisor in the Department of Electrical Engineering in the Erik Jonsson School of Engineering and Computer Science and a graduate advisor in the Naveen Jindal School of Management who will advise on respective programs and approve a degree plan. The advising office in each school will provide a detailed listing of approved courses. Courses taken without advisor approval may not count toward the required semester credit hours. No degree will be awarded until the completion of all requirements, including the requirement for the 68 or 51 semester credit hours for the MSEE/MBA or MSEE/MS or combinations respectively.

If a student chooses at a later time to pursue only one of the two degree programs, the student MUST again seek admission into the degree program of the student's choice and satisfy the requirements of that degree.
program. Prior coursework relevant to the specific degree program will be transferred, provided the course requirements have not changed.

Updated: August 26, 2014 - Visitor: 146
Naveen Jindal School of Management

Doctor of Philosophy Programs

Degree Requirements

Each doctoral candidate is required to complete a minimum of 75 semester credit hours of applicable graduate work in specific program areas beyond the baccalaureate degree and prerequisites. Throughout their programs, PhD students are encouraged to participate in ongoing research activities and to develop their own lines of research. Research activities include research seminars, directed reading courses, and research assistantships. Research supervision is available in the areas of Accounting, Finance and Managerial Economics, Information Systems, International Management Studies, Marketing, and Operations Management.

Doctor of Philosophy in International Management Studies

75 semester credit hours minimum beyond the baccalaureate degree

Students may enter the International Management Studies (IMS) doctoral program after previous graduate training or directly from undergraduate programs. Desirable educational backgrounds include graduate training in any area of business and graduate or undergraduate degrees in areas such as economics, sociology, political science, mathematics, and engineering, although students from all areas are considered.

The IMS PhD curriculum includes a business foundation, core courses, advanced seminars, a methodology requirement, directed readings and independent research courses, and the dissertation. All students must take PhD courses that are offered in each of the first two years in the program. Students must satisfy a first year research paper requirement which will be due at the end of the first year. (also known as the preliminary exam). Students also must pass the qualifying (comprehensive in nature) examination, which is administered at the end of the second year of study when all the relevant course requirements (Core Courses, Advanced Seminars, Research Methods) have been satisfied. It is intended to assess the student's mastery of the basic theories and methodologies central to the program and to evaluate the student's potential to do original research in an area of specialization. After passing the qualifying exam, each student writes a dissertation proposal which must be completed within six months of the qualifying exam. The proposal is defended before a faculty committee appointed in consultation with the student, dissertation chair, and PhD advisor. This committee also serves as the supervising committee for the dissertation after the proposal is approved.

Faculty Program List Placeholder

Course Requirements
Foundation Courses: minimum of 12 semester credit hours

These courses provide a foundation in basic business topics such as economics, marketing, finance, and accounting. These courses may be waived for students with master's degrees in management or other academic backgrounds that provide an equivalent foundation.

Core Courses: 24 semester credit hours

- **BPS 7300** Advanced Strategic Management Seminar I
- **BPS 7303** Doctoral Teaching and Writing Seminar
- **BPS 7307** Management Scholarship
- **IMS 7300** International Management
- **IMS 8V40** Seminar in International Business
- **MAS 8V42** Seminar Series in Management Science - Organizational Behavior
- **MAS 8V51** Seminar Series in Management Science - Strategic Management
- **OB 7300** Organization Theory

Advanced Seminars: 9 semester credit hours

Advanced seminars are offered on topics in international management, organizational behavior, organization theory, and strategic management. These courses are an opportunity for students to explore areas of study in greater depth, to develop short-term research projects, and to develop working relationships with faculty members with a view towards research publications and the dissertation.

Research Methods: 15 semester credit hours

- **EPPS 6313** Introduction to Quantitative Methods
- **EPPS 6316** Applied Regression
- **EPPS 7344** Categorical and Limited Dependent Variables
- **OB 7303** Research Methodology in Behavioral Sciences
- **OB 7306** Macro-Organizational Empirical Investigation

Students are encouraged to take additional methods courses consistent with their research interests.

Directed readings and independent research courses: 9 semester credit hours

Students can take further courses with selected faculty members to develop more specialized knowledge in areas of research interest before and after the qualifying exam.
Dissertation: minimum of 9 semester credit hours

The PhD degree is conferred when the dissertation is successfully defended.

Doctor of Philosophy in Management Science

75 semester credit hours minimum beyond the baccalaureate degree

The PhD program in Management Science is characterized by a high ratio of research faculty to students, which fosters close working relationships. Core and elective courses provide the students with a thorough understanding of management principles. Coursework incorporates a broad business outlook into the study of theory and practice. A sequence of PhD seminars exposes students to traditional and emerging research issues. Students have the opportunity to be involved in ongoing research projects under the mentorship of experienced faculty. We emphasize involving students in research early in their graduate careers. The close interaction with faculty members enables students to learn to identify and develop research ideas and create their own research agenda. Students also develop their teaching competence under faculty mentorship by teaching organized classes.

The course of study for the PhD in Management Science consists of three phases. First is attaining a background in business concepts. Second are the requirements for doctoral proficiency. Third is the dissertation. Each area of study - Accounting, Finance, Information Systems, Marketing, and Operations Management - determines the specific requirements for the three phases. Details can be obtained from the Director of the PhD programs in the Jindal School of Management.

Students admitted into the program typically devote two years to the doctoral proficiency coursework and research projects. PhD students take a written preliminary exam at the end of their first year in the program over a set of core methodology courses. They then take a qualifying (comprehensive in nature) exam that they must pass before admission for candidacy for the doctorate degree. Following passing the qualifying exam, each student develops his or her dissertation research area, which is usually completed over the next two years.

Doctoral proficiency encompasses courses in research methods, electives or a specialization, doctoral seminars, and a written and oral qualifying examination.

Faculty Program List Placeholder

Course Requirements

Required core courses: 18 semester credit hours

BPS 7303 Doctoral Teaching and Writing Seminar
MAS 8V00 Special Topics in Management Science [Teaching Practicum]
MECO 7312 Advanced Statistics and Probability (or a similar course such as STAT 5352)
MECO 6345 Advanced Managerial Economics
MECO 6350 Game Theory
OPRE 7353 Optimization
Secondary Required Core Courses: minimum of 9 semester credit hours

- **MECO 7313** Applied Econometrics
- **MECO 6320** Econometrics (or **ECON 6309** Econometrics I)
- **MECO 6360** Topics in Industrial Organization
- **MECO 7311** Advanced Game Theory
- **MECO 7320** Advanced Econometrics (or **ECON 7309** Econometrics II)
- **OPRE 7310** Probability and Stochastic Processes
- **OPRE 7311** Stochastic Models in Operations Research
- **OPRE 7320** Optimal Control Theory and Applications
- **OPRE 7330** Deterministic Models in Operations Research

Remaining requirements beyond the core consist of research courses, electives, independent study, and seminars as approved by the program committee appointed to guide and evaluate each student. After completion of the coursework to achieve doctoral proficiency and passing the preliminary exam, the student will take a written qualifying (comprehensive in nature) exam which must be passed before formal admission to candidacy for the doctorate. The student must also orally defend the dissertation proposal before starting the dissertation. Written examination in the area of specialization may also be required.

The focal point of the PhD program is the dissertation. The dissertation is written under the direction of the candidate's committee. Twelve to twenty-four semester credit hours may be granted for the dissertation toward the minimum 75 semester credit hour requirement for the degree. At a time mutually agreeable with the candidate and the members of the committee, the student will orally defend his or her dissertation to the satisfaction of the committee. A student must pass in order to have the PhD degree conferred.

**Accounting Concentration**

This program is for individuals seeking training in the most advanced issues, both theoretical and applied, in the field of accounting. It is designed to prepare them primarily for teaching positions in research-oriented universities. Some students may be placed in senior positions in industry, government, or consulting organizations. The program requires a hands-on training in accounting research, supported by work in the disciplines of economics, mathematics, psychology and statistics, culminating in a doctoral dissertation.

**Finance Concentration**

This program is for individuals seeking the most advanced academic degree with an emphasis in finance. It is designed to prepare them for (1) teaching positions in research-oriented universities, (2) senior staff positions in industry or government, or (3) senior positions in consulting organizations; however, the emphasis is on (1). The program consists of coursework in financial management, investments, and money and capital markets, together with work in the supporting areas of economics, mathematics, and statistics; it culminates in a doctoral dissertation.
Information Systems Concentration

This program is designed for individuals who seek training in advanced theoretical and applied issues in the field of information systems. The training prepares students for conducting leading edge research in topics ranging from the design of optimized systems to the effective use of such systems in organizations. Students undergo rigorous training in research methodologies as well as in the design of information systems. The research conducted is often interdisciplinary in nature, and is characterized by strong analytical modeling of new and emerging issues in information technology creation and management. The program prepares students mainly for academic positions in research universities; some students may be placed in research positions in industry, government, or consulting organizations.

Marketing Concentration

The purpose of the PhD Program in Management Science with a marketing concentration is to train researchers capable of dealing with the most advanced issues, both theoretical and applied, in the field of marketing. Universities as well as major companies with marketing orientation aggressively recruit PhD's with strong theoretical and research training in marketing. Graduates will have rigorous training in disciplinary areas and research methodology. They will have knowledge of the various research streams in marketing, will have developed a research specialization and a clear perspective on management issues.

Operations Management Concentration

Operations Management emphasizes the development of models, methods, applications, and algorithms as they apply to problems in manufacturing and services. All students will be exposed to deterministic and stochastic modeling and will have the option of applying and/or developing these and new methods to solve problems in their selected topics. The goal of the doctoral program in Operations Management is to educate future practitioners and researchers in the concepts and analytical techniques needed to understand and advance scientific solutions to the problems currently faced by operations managers.

Research

The faculty of the school makes intellectual contributions in two areas: fundamental scholarship that advances theory and practice, and applied scholarship focusing on practical issues. The fundamental work includes traditional basic research as well as applied research that defines new areas of practice and provides general frameworks that address a wide range of application problems. The applied scholarship provides "how to" frameworks for skilled practitioners, uses demonstration cases to show how theories can be applied, and defines new areas of application for existing tools and techniques.
Naveen Jindal School of Management

School of Management Executive Education Programs

The Naveen Jindal School of Management, Executive Education combines the best of the school's nationally recognized faculty with a select group of executives to provide an innovative, relevant portfolio of programs. Designed to advance knowledge and skills that improve organizational performance, these programs include both MBA and Master of Science degree programs, as well as certificate programs. Courses are taught on campus, on site, or online.

Executive MBA and Master's Degrees

- Executive MBA (EMBA) Degree Program
- Global Leadership Executive MBA (GLEMBA) Degree Program
- Graduate Certificates and Degree Programs with an emphasis in Project Management
- Graduate Certificates and Degree Programs with an emphasis in Product Lifecycle and Supply Chain Management
- Master of Science in Healthcare Management for Physicians
- Healthcare Management Executive MBA for Physicians
- Graduate Certificate in Executive and Professional Coaching
- Executive Education Degree Program in Organizational Behavior and Coaching
- Executive Master of Science Degree and Certificate Programs in Systems Engineering and Management (MS-SEM)

Special admission and fee requirements apply to the following programs and courses.

Executive MBA (EMBA) Program

53 semester credit hours minimum

The Executive MBA (EMBA) program prepares experienced professionals for upper management, executive levels, and the C-suite. Based in part on personal executive coaching, the program provides a transformative educational experience that enhances your success and takes your career to a higher level. The 21-month program is 4 class days per month, minimizing disruptions for those with busy schedules. The Executive MBA curriculum enhances individuals' basic business fundamentals and sharpens their decision making skills through strategic frameworks for enterprise transformation. The program includes the America's trip and an international study tour. The ten-day international trip exposes students to corporate and governmental decision makers and provides behind the scenes with one-on-one conversations with corporate leaders.
The EMBA program is supported entirely by participant fees and special admissions requirements apply. Executive MBA degree programs in the Naveen Jindal School of Management require a core of 30 semester credit hours, along with a set of specially designed elective courses equivalent to 23 semester credit hours, for a total of 53 semester credit hours. The MBA core is comprised of the following courses:

**Executive MBA Core Curriculum: 30 semester credit hours**

- **ACCT 6201** Introduction to Financial Accounting
- **ACCT 6202** Introduction to Managerial Accounting
- **BPS 6310** Strategic Management
- **FIN 6301** Financial Management
- **IMS 6204** Global Business
- **MIS 6302** Information Technology Strategy and Management
- **MECO 6303** Business Economics
- **MKT 6301** Marketing Management
- **OPRE 6301** Quantitative Introduction to Risk and Uncertainty in Business
- **OPRE 6302** Operations Management
- **OB 6301** Organizational Behavior

**Required Courses: 23 semester credit hours**

The following courses, comprising a total of 23 semester credit hours, are currently required in the Executive MBA Program curriculum.

- **BPS 6254** Enterprise Transformation
- **FIN 6252** Creating Value through Mergers, Acquisitions and Private Equity
- **IMS 6252** International Business Management
- **BPS 6151** Executive Study Trip - Americas Trip
- **BPS 6351** Executive International Study Trip - EMBA
- **ACCT 6287** Board Membership, Risk Management and Compliance
- **OB 6152** Executive Coaching
- **BPS 6256** C-Suite Leadership
- **OB 6339** Negotiations and Contracts
- **ENTP 6395** Managing Innovation
- **BPS 6255** Field Project
Global Leadership Executive MBA (GLEMBA) Program

53 semester credit hours minimum

The Global Leadership Executive MBA (GLEMBA) program is designed for the manager wanting to expand their international business acumen. The first two semesters are about US business fundamentals. The third semester begins with an international retreat as students take a deep dive into four geographic markets. The fourth semester is about entering and operating in new geographic markets and the fifth semester is about leading and executing in those markets. This 21 month program includes: online learning, three campus retreats, one international retreat and a ten-day international study tour. A set degree plan expands the MBA core curriculum with an international curriculum.

The Global Leadership Executive MBA Program curriculum is detailed below and requires a core of 29 semester credit hours, along with a set of specially designed elective courses equivalent to 24 semester credit hours, for a total of 53 semester credit hours.

GLEMBA Program is supported entirely by participant fees and special admissions requirements apply. The MBA core is comprised of the following courses:

Executive MBA Core Curriculum: 29 semester credit hours

- **ACCT 6201** Introduction to Financial Accounting
- **ACCT 6202** Introduction to Managerial Accounting
- **BPS 6310** Strategic Management
- **FIN 6301** Financial Management
- **IMS 6204** Global Business
- **MIS 6204** Information Technology for Management
- **MECO 6303** Business Economics
- **MKT 6301** Marketing Management
- **OB 6301** Organizational Behavior
- **OPRE 6301** Quantitative Introduction to Risk and Uncertainty in Business
- **OPRE 6302** Operations Management

Required Courses: 24 semester credit hours

The degree plan will be comprised of total 24 semester credit hours from the list below

- **ENTP 6352** International Business Plan
- **FIN 6366** International Financial Management
Certificates and Degree Programs with an emphasis in Project Management

The Executive Education Project Management Program is one of the emphasis areas designed to begin with a set of specialization area courses followed by additional business management core courses and leading to either a Master of Science or a Master of Business Administration degree with the chosen emphasis. Upon completion of the project management core courses, students earn a graduate certificate in project management and are prepared to take the Project Management Institute's Project Management Professional (PMP) certification exam. Following completion of the project management core, students may then continue to complete the requirements for the Master of Science or the Master of Business Administration degree.

Project management faculty members have industrial project management, operations management, management consulting, and teaching experience. The program curriculum is delivered both on campus and online. The on-campus program accommodates work and travel schedules by meeting 8 hours per day on one consecutive Thursday, Friday, and Saturday per month. The online program is designed as weekly modules equivalent to one half-day on campus and includes live interaction.

The project management emphasis certificate and degree programs are supported entirely by participant fees and special admissions requirements apply. Both degree and non-degree seeking students with undergraduate degrees can study towards the Graduate Certificate in Project Management. Potential students are required to complete an application, provide written professional references from 3 people, attend an interview with the program director, and request all universities attended send an official transcript.

Graduate Certificate in Project Management

21 semester credit hours minimum

The graduate certificate in Project Management is awarded after completion of the project management core courses described below totaling 21 semester credit hours. These courses emphasize a systems approach to project management and follow the lifecycle of a project, integrating relevant topics from multiple knowledge areas rather than presenting topical courses in isolation. This type of learning environment more closely tracks an actual work experience and facilitates learning and application.
Courses Required for Graduate Certificate in Project Management

- MAS 6101 Legal Considerations in Project Management
- OB 6301 Organizational Behavior
- OPRE 6271 Project Overview, Strategic and Process Management
- OPRE 6372 Project Initiation
- OPRE 6373 Project Planning
- OPRE 6374 Project Planning and Execution
- OPRE 6375 Project Execution and Closeout
- OPRE 6376 Advanced Project Management and Simulation

Master of Science in Management and Administrative Sciences with an emphasis in Project Management

39 semester credit hours minimum

A Master of Science degree is awarded after the completion of an additional 18 semester credit hours beyond the Project Management Core requirements.

- MS MAS in Project Management supplemental curriculum:
  - ACCT 6201 Introduction to Financial Accounting
  - ACCT 6202 Introduction to Managerial Accounting
  - IMS 6370 Seminar in International Operations Management
  - IMS 6371 Seminar in International Strategic Management
- MECO 6303 Business Economics
- MIS 6204 Information Technology for Management
- OPRE 6301 Quantitative Introduction to Risk and Uncertainty in Business

Executive MBA degree with an emphasis in Project Management

53 semester credit hours minimum

The Executive MBA is earned by waiving the Master of Science degree and completing an additional 14 semester credit hours, for a total of 53 semester credit hours. Students must complete the executive core courses listed below to earn the degree.
Additional courses to fulfill requirements for the Executive MBA:

- **BPS 6310** Strategic Management
- **FIN 6301** Financial Management
- **IMS 6204** Global Business
- **MKT 6301** Marketing Management
- **OPRE 6302** Operations Management

Certificates and Degree Programs with an emphasis in Product Lifecycle and Supply Chain Management

The graduate certificate and degree programs in Product Lifecycle and Supply Chain Management focus on educating executives and industry sponsored employees by combining theory and practice. It emphasizes the need to understand "the big picture," the importance of renewed focus on product lifecycle from design to disposal, and supply chain from end to end. Students are trained to be effective problem solvers, and to continuously improve product performance and supply chain efficiency.

The program will employ lectures, case studies, site visits, and the use of quantitative and qualitative methods to meet the learning objectives of the program. Students are required to integrate classroom learning with work projects. The program leverages the world-class faculty in the operations management and industry leaders/practitioners to deliver the program. Following completion of the product lifecycle and supply chain management core, students may then continue to complete the requirements for the Master of Science in Supply Chain Management or the Master of Business Administration degree.

The product lifecycle and supply chain emphasis certificate and degree programs are supported entirely by participant fees and special admissions requirements apply. Both degree and non-degree seeking students with undergraduate degrees can study towards the Graduate Certificate in Project Management. Potential students are required to complete an application, provide written professional references from 3 people, attend an interview with the program director, and request all universities attended send an official transcript.

Graduate Certificate in Product Lifecycle and Supply Chain Management

- **15 semester credit hours minimum**

The graduate certificate in Product Lifecycle and Supply Chain Management is awarded after completion of the product lifecycle and supply chain management core courses described below, totaling 15 semester credit hours.
Courses Required for Graduate Certificate in Product Lifecycle and Supply Chain Management: 15 semester credit hours

- **OPRE 6364** Quality Control (Lean 6 Sigma)
- **OPRE 6366** Global Supply Chain Management
- **OPRE 6370** Global Logistics and Transportation
- **OPRE 6371** Purchasing, Sourcing and Contract Management
- **OPRE 6379** Product Lifecycle Management

Master of Science in Supply Chain Management

36 semester credit hours minimum

A Master of Science in Supply Chain Management degree is awarded after the completion of an additional 22 semester credit hours beyond the product lifecycle and supply chain management core requirements. The MS in Supply Chain Management requires the following coursework:

MS in Supply Chain Management supplemental curriculum: 22 semester credit hours

- **ACCT 6201** Introduction to Financial Accounting
- **ACCT 6202** Introduction to Managerial Accounting
- **FIN 6301** Financial Management
- **OB 6301** Organizational Behavior
- **OPRE 6301** Quantitative Introduction to Risk and Uncertainty in Business
- **OPRE 6302** Operations Management
- **OPRE 6367** Capstone Projects in Supply Chain Management (International Study)
- **OPRE 6368** Industrial Applications in Supply Chains (International Study)

Executive MBA degree with an emphasis in Product Lifecycle and Supply Chain Management

53 semester credit hours minimum

The Executive MBA is earned by waiving the Master of Science degree and completing an additional 16 semester credit hours, for a total of 53 semester credit hours. Students must include the executive core courses listed below to earn the degree.

Comment [MV4]: Restored 36 SCH per Dr. Alborz’s email, 1-30-15.

Comment [MV5]: When you add the 15 from the certificate to the 22 in this section, the total comes to 37 SCH.
Additional courses to fulfill requirements for the Executive MBA: 16 semester credit hours

- BPS 6310 Strategic Management
- IMS 6204 Global Business
- MECO 6303 Business Economics
- MIS 6204 Information Technology for Management
- MKT 6301 Marketing Management
- OPRE 6342 Special Topics in Product Lifecycle and Supply Chain Management

Master of Science in Healthcare Management for Physicians

36 semester credit hours minimum

The Master of Science in Healthcare Management is a specialized business degree available to licensed MDs and DOs. The 36 semester credit hour healthcare management curriculum consists of nine 4-day residential classes OR any eight classes plus a self-directed field study. A different class is offered every two months and classes may be started at any time and taken in any order. Classes are eligible for up to 36 semester credit hours each of Category 1 CME credit toward the AMA Physician's Recognition Award. Successful completion of any five classes is recognized by the award of a Graduate Certificate in Healthcare Management.

The curriculum is centered on real-life healthcare problems and cases. Classes are jointly taught by senior business and medical school faculty with outstanding academic credentials and real-world healthcare experience. Physicians and faculty work collaboratively in small teams to examine facts, evaluate alternatives, and develop workable solutions.

The healthcare management curriculum consists of the following courses:

- HMGT 6401 Negotiation and Conflict Management in Healthcare
- HMGT 6402 Financial Management of Healthcare Organizations
- HMGT 6403 Medical Cost and Performance Management
- HMGT 6404 Quality and Performance Improvement in Healthcare
- HMGT 6405 Healthcare Information Management and Technology
- HMGT 6406 Strategic Management of Healthcare Organizations
- HMGT 6407 Healthcare Policy and Regulation
- HMGT 6408 Competencies of Effective Physician Leaders

Comment [MJ6]: If you add all the 4 credit hours, it comes to 36 SCH. Then if students take the variable courses, it goes over 36.
Healthcare Management Executive MBA for Physicians

53 semester credit hours minimum

The Healthcare Management Executive MBA is a general business degree preferred by physicians who wish to transition into an executive management role. It requires the completion of the Master of Science in Healthcare Management curriculum plus an additional 17 semester credit hours consisting of six non-healthcare related general business classes. These classes provide an integrated overview of functional areas of management as well as analytical tools for effective decision making. The general business classes may be taken online for maximum flexibility and convenience. The online classes require no on-campus visits.

**Required Business Courses: 17 semester credit hours**

- FIN 6301 Financial Management
- IMS 6204 Global Business
- MECO 6303 Business Economics
- MKT 6301 Marketing Management
- OPRE 6301 Quantitative Introduction to Risk and Uncertainty in Business
- OPRE 6302 Operations Management

The Healthcare Management Executive MS and MBA degrees are supported entirely by participant fees and special admissions requirements apply. Further information may be obtained from the program website: [http://amme.utdallas.edu](http://amme.utdallas.edu).

Executive Education Program in Organizational Behavior and Coaching

As is the case with both Project Management and Healthcare Management for Physicians, students in the executive program in Organizational Behavior and Coaching can complete multiple levels of recognition in the program, including:

1. A Graduate Certificate in Executive and Professional Coaching after 15 semester credit hours.

2. A Master of Science degree in Management and Administrative Sciences after the completion of an additional 21 semester credit hours beyond certificate requirements.
This concentration focuses on organizational behavior and coaching theory, methodology, and techniques. Students learn how to become instruments of individual and organizational change, lead and manage organizational transitions, work effectively when there is resistance to change, and develop skills as an internal and external practitioner. Students deepen their knowledge of individual and organizational behavior through the integration of theory and practice. They leave the program with a set of tools for personal, group, organization, and community transformation, qualified to apply for professional accreditation by the International Coach Federation.

Classes are conducted utilizing the very best in interactive distance learning methodologies, making the program convenient, efficient, and geographically independent for busy professionals. Students are taught by outstanding master coaches with real-world coaching experience within business settings and by Jindal School of Management faculty.

**Graduate Certificate in Executive and Professional Coaching**

*15 semester credit hours minimum*

The graduate level certificate requires the successful completion of the following six courses specific to Executive and Professional Coaching, including three Coaching Practice/Practicum courses, **OB 6248**, **OB 6249**, and **OB 6253**.

**Executive and Professional Coaching courses**

- **OB 6248** Coaching Practice Lab I
- **OB 6249** Coaching Practice Lab II
- **OB 6350** Introduction to Executive and Professional Coaching
- **OB 6351** Coaching in the Business or Organizational Setting
- **OB 6352** Advanced Coaching Models and Methods
- **OB 6253** Coaching Practicum

**Master of Science in Management and Administrative Sciences with a Concentration in Organizational Behavior and Coaching**

*36 semester credit hours minimum*

After completion of the certificate requirements, students can go on to complete a Master of Science in Management and Administrative Sciences by completing another 21 semester credit hours of graduate level courses, including the courses in the MS MAS core curriculum.

**MS MAS Core Curriculum**
The MS MAS core is comprised of the following courses:

- **ACCT 6201** Introduction to Financial Accounting
- **MECO 6303** Business Economics
- **MIS 6204** Information Technology for Management
- **OB 6301** Organizational Behavior
- **OPRE 6301** Quantitative Introduction to Risk and Uncertainty in Business

Organizational Behavior and Coaching students take the executive MS MAS core set, and then draw the remainder of their courses from the following list specific to the Organizational Behavior component of the curriculum.

**Organizational Behavior Electives**

- **OB 6331** Power and Politics in Organizations
- **OB 6332** Negotiation and Dispute Resolution
- **OB 6255** Capstone in Organizational Behavior and Coaching

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**Executive Master of Science Degree and Certificate Programs in Systems Engineering and Management (MS-SEM)**

*36 semester credit hours minimum*

The certificates and degree programs are jointly offered by the Naveen Jindal School of Management and the Erik Jonsson School of Engineering and Computer Science.

**Admissions Requirements**

A student lacking undergraduate prerequisites for graduate courses must complete prerequisites or receive approval from the graduate advisor and the course instructor. Specific admission requirements for the MS-SEM follow.

A student entering the MS-SEM program should meet the following guidelines:

- A minimum of a BS in engineering, mathematics, physics, chemistry, economics or finance (specifically, programs that provide adequate fundamental skills in mathematics).
- A minimum of three years of work experience.
• Submission of three letters of recommendation from individuals who are able to judge the candidate's probability of success in pursuing a program of study leading to the MS-SEM degree.
• Submission of an essay outlining the candidate's background, education, and professional goals.

Degree Requirements
The MS-SEM program is designed to be flexible to accommodate different student backgrounds, allowing students to learn in areas in which they are deficient, while still guaranteeing core competency in systems engineering and systems management. This program has both a thesis and a non-thesis option. All part-time MS-SEM students will be assigned initially to the non-thesis option. Those wishing to elect the thesis option may do so by obtaining the approval of a faculty thesis supervisor.

The MS-SEM degree requires a total of 36 semester credit hours consisting of 12 courses in the non-thesis option or 10 courses plus six semester credit hours of thesis credit for the thesis option. All students must have an academic advisor and an approved degree plan. Courses taken without advisor approval will not count toward the 36 semester credit hour requirement. Successful completion of the approved course of studies leads to the MS-SEM degree. Please also note that the university's general degree requirements are discussed in the graduate catalog.

Non-Thesis Option
Completion of a minimum of 36 semester credit hours of graduate-level lecture courses including the required core courses. With advisor approval, these may include some 5000 level courses. Students must earn a grade of B- or better in each of four core courses (see below).

Thesis Option
An alternative to the 36 semester credit hour requirement for the MS-SEM degree is the completion of a minimum of 30 semester credit hours of graduate-level lecture courses, with a grade of B- or better in each of the required core courses, six semester credit hours of a combination of master's research (SYSM 6V70) and thesis (SYSM 6V90), submitted to the graduate school, and a formal public defense of the thesis.

Students enrolled in the thesis option should meet with individual faculty members to discuss research opportunities and to choose a research advisor during the first or second semester that the student is enrolled. After the second semester of study, course selection should be made in consultation with the research advisor. Part-time students are encouraged to enroll in only one course during their first semester and in no more than two courses during any semester they are also working full-time.

Research and thesis semester credit hours cannot be counted in an MS-SEM degree plan unless a thesis is written and successfully defended. A supervising committee, which must be chosen in consultation with the student’s thesis advisor prior to enrolling for thesis credit, administers the defense. With advisor approval, the lecture courses may include some 5000 level courses. Full-time UT Dallas students who receive financial assistance are required to enroll in nine semester credit hours each semester.
**Required Courses**

Students are required to take four courses (a total of 12 semester credit hours) from a set of eight courses in the list below. Two of the courses must be from the Engineering Core section and two from the Management Core section. The four required courses contribute a total of 12 semester credit hours toward the MS-SEM degree.

**Prescribed Elective Courses**

These consist of an additional four courses (a total of 12 semester credit hours) from the set of eight core courses listed and/or the set of courses listed below. Two of these courses must be chosen from the two Engineering sections (core and elective), and two from the two Management sections. Because a program objective is to maintain a high degree of flexibility, students are encouraged to work with a SEM program advisor to discuss possible (limited) exceptions and substitutions for the prescribed courses.

**SEM Core Curriculum**

**Engineering 1 (Core)**
- SYSM 6301 Systems Engineering, Architecture and Design
- SYSM 6302 Dynamics of Complex Networks and Systems
- SYSM 6303 Quantitative Introduction to Risk and Uncertainty in Business
- SYSM 6305 Optimization Theory and Practice

**Management 1 (Core)**
- SYSM 6311 Systems Project Management in Engineering and Operations
- SYSM 6312 Systems Financial Management
- SYSM 6318 Marketing Management
- SYSM 6333 Systems Organizational Behavior

**Engineering 2 (Prescribed Elective)**
- SYSM 6304 Risk and Decision Analysis
- SYSM 6306 Engineering Systems: Modeling and Simulation
- SYSM 6307 Linear Systems
- SYSM 6308 Software Maintenance, Evolution, and Re-Engineering
- SYSM 6309 Advanced Requirements Engineering
- SYSM 6310 Software Testing, Validation and Verification
SYSM 6321 Financial Engineering I
SYSM 7321 Financial Engineering II

Management 2 (Prescribed Elective)
SYSM 6313 Systems Negotiation and Dispute Resolution
SYSM 6315 The Entrepreneurial Experience
SYSM 6316 Managing Innovation within the Corporation
SYSM 6317 The Management of High Tech Products
SYSM 6319 Business Economics
SYSM 6320 Strategic Leadership
SYSM 6332 Technology and New Product Development
SYSM 6334 Systems Operations Management

Free Elective Courses
For the free elective, students will be able to take, with prior approval from the program director, any four additional and distinct courses of the remaining 12 core courses that have not already been taken as required courses or prescribed elective courses. Students will also be able to take additional free elective courses that are already being offered in management or in engineering that will allow "concentration" or "specialization" in specific industry sectors, including the following:

- Aerospace, Defense and Space
- Cybersecurity and Information Assurance
- Energy and Infrastructure Systems
- Enterprise and Data Management Systems
- Entrepreneurship and Innovation Management
- Global Supply Chain and Operations Management
- Healthcare and Biomedical Systems
- Optimization Theory and Operations Research
- Telecom, IT and Multimedia Networks
- Transportation Systems

Students must take a minimum of five core and prescribed elective courses before taking any free elective courses.
Certificates

The program offers two certificates: a Certificate in Systems Engineering and a Certificate in Systems Management. Each certificate requires 12 semester credit hours and is offered in an Executive Education, four-semester credit hour module format. See Course Descriptions for information on course content.

Certificate in Systems Engineering

Students are required to complete two from the set of engineering courses listed below, and any two additional from the remainder of the 20 SYSM-prefix listed below in either group, engineering or management.

**Systems Engineering Courses**

- **SYSM 6301** Systems Engineering, Architecture and Design
- **SYSM 6302** Dynamics of Complex Networks and Systems
- **SYSM 6303** Quantitative Introduction to Risk and Uncertainty in Business
- **SYSM 6304** Risk and Decision Analysis
- **SYSM 6305** Optimization Theory and Practice
- **SYSM 6306** Engineering Systems: Modeling and Simulation
- **SYSM 6307** Linear Systems
- **SYSM 6308** Software Maintenance, Evolution, and Re-Engineering
- **SYSM 6309** Advanced Requirements Engineering
- **SYSM 6310** Software Testing, Validation and Verification
- **SYSM 6321** Financial Engineering I
- **SYSM 7321** Financial Engineering II

Certificate in Systems Management

Students are required to complete two from the set of management courses listed below, and any two additional from the remainder of the 20 SYSM-prefix listed in group, engineering or management.

**Systems Management Courses**

- **SYSM 6311** Systems Project Management
- **SYSM 6312** Systems Financial Management
- **SYSM 6313** Systems Negotiation and Dispute Resolution
- **SYSM 6315** The Entrepreneurial Experience
SYSM 6316 Managing Innovation Within the Corporation
SYSM 6317 The Management of High Tech Products
SYSM 6318 Marketing Management
SYSM 6319 Business Economics
SYSM 6320 Strategic Leadership
SYSM 6322 Technology and New Product Development
SYSM 6333 Systems Organizational Behavior
SYSM 6334 Systems Operations Management

Engineering Courses
SYSM 6301 Systems Engineering, Architecture and Design
SYSM 6302 Dynamics of Complex Networks and Systems
SYSM 6303 Quantitative Introduction to Risk and Uncertainty in Business
SYSM 6304 Risk and Decision Analysis
SYSM 6305 Optimization Theory and Practice
SYSM 6306 Engineering Systems: Modeling and Simulation
SYSM 6307 Linear Systems
SYSM 6308 Software Maintenance, Evolution, and Re-Engineering
SYSM 6309 Advanced Requirements Engineering
SYSM 6310 Software Testing, Validation and Verification
SYSM 6321 Financial Engineering I
SYSM 7321 Financial Engineering II
SYSM 6V70 Research In Systems Engineering and Management
SYSM 6V80 Special Topics in Systems Engineering and Management
SYSM 6V90 Thesis

Management Courses
SYSM 6311 Systems Project Management in Engineering and Operations
SYSM 6312 Systems Financial Management
SYSM 6313 Systems Negotiation and Dispute Resolution
SYSM 6315 The Entrepreneurial Experience
SYSM 6316 Managing Innovation within the Corporation
SYSM 6317 The Management of High Tech Products
The Naveen Jindal School of Management and the Erik Jonsson School of Engineering and Computer Science offer a joint Executive MS-SEM and MBA degree program. This is a 63-65 semester credit hours degree program (excluding prerequisites) that provides students with opportunities to learn from excellent faculty and places them at the forefront in the fields of systems engineering management and business leadership. This dual degree program also provides students with deep knowledge in SEM and a broad knowledge of management with an enhanced worldwide perspective of business leadership for increasing productivity, efficiency and profitability.

Dual Degree Admission Requirements

Students pursuing the dual MS-SEM and MBA degree program must meet the admission requirements for both programs, and submit all required documents for admission to both programs. Students joining the Executive MS-SEM degree program must first complete their 36 semester credit hours of the master program. Students have up to six years to accumulate remaining required core hours for the MBA Degree (details with respect to program-specific requirements can be obtained from the advisors for the two programs).

The dual-degree program allows students to earn a combination of an MS-SEM degree and a Global Executive MBA (GLEMBA) program because today's experienced graduate students seasoned by eight or more years as workforce professionals often seek a more comprehensive education in technical skills as well as broad-based business-leadership capabilities for the global economy. The dual-degree option provides both deep knowledge in SEM, as well as a broad knowledge of all areas of management with an enhanced worldwide perspective of business leadership for increasing productivity, efficiency and profitability.

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School of Natural Sciences and Mathematics

The School of Natural Sciences and Mathematics (NS&M) houses six departments, each with graduate programs: Biological Sciences (MS, PhD); Chemistry and Biochemistry (MS, PhD); Geosciences (MS, PhD); Mathematical Sciences, emphasizing Applied Mathematics and Statistics and Actuarial Science (MS, PhD); Physics (MS, PhD); and Science and Mathematics Education (Master of Arts in Teaching). In addition, there are three interdisciplinary degrees offered: Bioinformatics and Computational Biology (MS) and Geospatial Information Sciences (MS, PhD). Each program is relatively small and thus able to provide excellent graduate student-faculty contact, while maintaining a strong research program. Increasingly, departments interact with each other in research, allowing interdisciplinary efforts to flourish. A number of well-funded Research Centers and Institutes are also housed in NS&M; these allow graduate students to approach real world, cutting edge research problems while working side by side with professional research staff and internationally recognized faculty. They are: the Center for Applied Biology; the Center for Lithospheric Studies; the UT Dallas NanoTech Institute; the Center for Quantum Electronics; and the Center for Space Sciences.

Degrees Offered

**Biological Sciences**

- Master of Science in Biotechnology (36 semester credit hours minimum)
- Master of Science in Molecular and Cell Biology (36 semester credit hours minimum)
- Doctor of Philosophy in Molecular and Cell Biology (75 semester credit hours minimum beyond the baccalaureate degree)

**Chemistry and Biochemistry**

- Master of Science in Chemistry (30 semester credit hours minimum)
- Doctor of Philosophy in Chemistry (75 semester credit hours minimum beyond the baccalaureate degree)

**Geosciences**

- Master of Science in Geosciences (36 semester credit hours minimum)
- Doctor of Philosophy in Geosciences (75 semester credit hours minimum beyond the baccalaureate degree)

**Mathematical Sciences**

- Master of Science in Actuarial Science (36 semester credit hours minimum)
- Master of Science in Mathematics - Specialization in Applied Mathematics (36 semester credit hours minimum)
• Master of Science in Mathematics - Specialization in Engineering Mathematics (36 semester credit hours minimum)
• Master of Science in Mathematics - Specialization in Mathematics (36 semester credit hours minimum)
• Master of Science in Mathematics - Specialization in Statistics (36 semester credit hours minimum)
• Doctor of Philosophy in Mathematics - Specialization in Applied Mathematics (75 semester credit hours minimum beyond the baccalaureate degree)
• Doctor of Philosophy in Mathematics - Specialization in Statistics (75 semester credit hours beyond the baccalaureate degree)

Physics
• Master of Science in Physics (30 semester credit hours minimum)
• Doctor of Philosophy in Physics (75 semester credit hours minimum beyond the baccalaureate degree)

Science and Mathematics Education
• Master of Arts in Teaching in Science Education (36 semester credit hours minimum)
• Master of Arts in Teaching in Mathematics Education (36 semester credit hours minimum)

Interdisciplinary Studies
• Master of Science in Bioinformatics and Computational Biology (36 semester credit hours minimum)
• Master of Science in Geospatial Information Sciences (30 semester credit hours minimum)
• Doctor of Philosophy in Geospatial Information Sciences (75 semester credit hours minimum beyond the baccalaureate degree)
School of Natural Sciences and Mathematics

Department of Biological Sciences

Department Faculty

Professors: Lee A. Bulla, Rockford K. Draper, Juan E. González, Lawrence J. Reitzer, Stephen Spiro, Li Zhang, Michael Qiwei Zhang

Professors Emeritus: Hans Bremer, Donald M. Gray, Claud S. Rupert

Associate Professors: Gail A. M. Breen, John G. Burr, Jeff L. DeJong, Ernest M. Hannig, Tae Hoon Kim, Dennis L. Miller

Assistant Professors: Nikki Delk, Heng Du, Jung-whan (Jay) Kim, Kelli Palmer, Duane D. Winkler, Zhenyu Xuan, Hyuntae Yoo

Research Assistant Professor: Lan Guo

Affiliated Faculty: Stephen D. Levene, Jonathan E. Ploski

Senior Lecturers: Irina Borovkov, Mehmet Candas, Vincent P. Cirillo, Monique Duncan, Brenna Hill, Wen-Ju Lin, Li Liu, Robert C. Marsh, David Murchison, Jing Pan, Elizabeth Pickett, Ruben D. Ramirez, Scott A. Rippel, Elizabeth L. Rugg, Ilya Sapozhnikov, Uma Srikanth, Michelle Wilson, Wen-Ho Yu

Lecturers: Uyen Henson, John Kolar

Department Objectives

The Graduate Program offers training in those aspects of molecular and cell biology that underpin modern biological and biomedical sciences.

The Master of Science degree in Molecular and Cell Biology is designed for students who wish to learn the methodology of research in molecular and cell biology and the fundamentals of problem solving in these areas.

The Master of Science degree in Molecular and Cell Biology (without thesis) is intended for students who seek to gain knowledge of modern biology without the intent to seek positions as technical laboratory personnel, and for those students who are seeking additional preparation for admission to professional schools.

The Master of Science degree in Biotechnology is intended to prepare students for careers in biotechnology and biomedicine, and to assist currently employed professionals in enhancing their career opportunities.

The Master of Arts in Teaching degree in Science Education with a specialization in Biology is designed to strengthen the knowledge of high school teachers in fundamental aspects of biology and to bring them up to date on advances in this rapidly developing field. For further information on this program and for course descriptions, see the Science/Mathematics Education section of this catalog.

The Doctor of Philosophy degree in Molecular and Cell Biology is appropriate for students who show a
potential for originality in research, and is designed to develop a critical and analytical understanding of current developments, which will enable them to keep abreast of the rapid advances that are likely to occur in the biological and biomedical fields.

The MS and PhD degree plans offer students the opportunity to prepare for academic careers in colleges and universities including medical and dental schools, and for careers in industrial, hospital, public health, and environmental and governmental laboratories and organizations.

**Specializations**

First-year MS and PhD students in Molecular and Cell Biology will complete a body of core courses that emphasize fundamental aspects of biochemistry, quantitative biology, molecular biology, and cell biology. **MS Biotechnology students take core courses in genomics, proteomics and bioinformatics, and a laboratory-based course.** All students may then proceed to advanced coursework in any of these general areas. Elective courses are open to all qualified students as recommended by their supervising committees. First-year PhD students are required to participate in rotations through research laboratories.

In the second year, **MS and PhD students in Molecular and Cell Biology initiate research under the supervision of one or more of the Biological Sciences faculty.** The faculty and their research interests are listed below. Prospective students should recognize that it is possible to do research in closely related areas not mentioned in this list, provided a faculty member is prepared to supervise the work.

- **Gail A. M. Breen**: Isolation and characterization of the genes that code for proteins of the mammalian mitochondrion; mitochondrial biogenesis; eukaryotic gene regulation.
- **Lee A. Bulla**: Molecular basis of biopesticides.
- **John G. Burr**: Eukaryotic growth regulation; mechanism of viral oncogenic transformation.
- **Jeff L. DeJong**: Eukaryotic transcription; initiation and activation of RNA polymerase II.
- **Nikki Delk**: The role and regulation of autophagy and autophagy-related proteins in bone metastatic prostate cancer cell survival.
- **Rockford K. Draper**: Membrane traffic; protein toxins; bio-nanotechnology.
- **Heng Du**: Role of mitochondria in synaptic and neural degeneration in Alzheimer's disease.
- **Juan E. González**: Cell-cell interactions, role of exopolysaccharides in nodulation of legumes by rhizobia; molecular genetics of plant-microbe interactions.
- **Ernest M. Hannig**: Control of protein synthesis; genetic and biochemical analysis of translation initiation factors; protein-protein interactions.
- **Jung-whan (Jay) Kim**: Cancer cell metabolism and the tumor microenvironment.
- **Tae Hoon Kim**: Genome expression mechanisms involving transcription elongation and insulation; functional genomics tools for understanding and targeting cancer genomes and epigenomes.
- **Dennis L. Miller**: Structure and organization of mitochondrial DNA; mitochondrial gene expression; RNA editing; mitochondrial biogenesis.
- **Kelli Palmer**: Genomic, transcriptomic, and biochemical analysis of antibiotic resistance in pathogenic bacteria.
- **Lawrence J. Reitzer**: Regulation of gene expression and metabolism in prokaryotes.
• **Stephen Spiro**: Regulation of bacterial gene expression by environmental signals; genetic and physiological adaptation to stress.

• **Duane D. Winkler**: Structural, biophysical, and thermodynamic analysis of trans-acting factors responsible for the dynamic nature of nucleosomes with regard to normal DNA metabolism and disease.

• **Zhenyu Xuan**: Computational biology and bioinformatics.

• **Hyuntae Yoo**: Systems biology for drug discovery.

• **Li Zhang**: Molecular mechanisms of cell signaling, heme signaling and oxygen sensing, genomics, and systems biology.

• **Michael Qiwei Zhang**: Computational biology; gene regulation and epigenomics.

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**Facilities**

Major items of equipment used by the faculty are available for graduate student research. This equipment includes fluorescence and confocal microscope systems, two high throughput sequencing platforms, fluorescence activated cell sorter, isothermal titration calorimeter, protein crystallization robot, Veeco MultiMode SPM atomic force microscope, Molecular Dynamics PhosphorImagers, BioRad real-time polymerase chain reaction instruments, Beckman scintillation counters and Optima ultracentrifuges, a Jasco J-715 spectropolarimeter, and mass spectrometers for proteomics and metabolomics. Individual laboratories are well-equipped with instrumentation needed for research in molecular and cell biology, including thermal cyclers, spectrophotometers, chromatography and electrophoresis systems, chemical hoods, and mammalian cell culture facilities.

Other shared biology facilities include environmental chambers, two staffed media kitchens with autoclaves and washing machines, a darkroom with an x-ray film developer, and an electronics workshop. There is a modern research animal housing facility on campus, as well as a GE 500 MHz FT multinuclear magnetic resonance spectrometer.

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**Admission Requirements**

The University’s general admission requirements are discussed on the [Graduate Admission page](catalog.utdallas.edu/2015/graduate/admission).

For full participation in the Graduate Program in Molecular and Cell Biology, the student should have a good background in calculus, general physics, organic chemistry, biochemistry, and general biology, including genetics and cell biology. Entering students not having this background may be required to take some additional coursework in their first year or in the summer immediately preceding entry. **Students intending to do research in computational biology should have some background in mathematics and in programming.**

Admission is competitive. A minimum GRE score of 295 (verbal plus quantitative) with a minimum of 147 for the verbal component is required. Average test scores for admitted students vary from year to year. The actual scores required for admission are higher, especially for PhD applicants.

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**Degree Requirements**

The University’s general degree requirements are discussed on the [Graduate Policies and Procedures page](catalog.utdallas.edu/2015/graduate/policies/policy).
Upon satisfactory completion of the core courses (and, for PhD candidates, a favorable evaluation following the spring semester as described below), a supervising committee is appointed for each student (except non-thesis MS students) based upon mutual agreement between student, research mentor and faculty. The supervising professor, possibly with the advice of the supervising committee will help plan an elective course curriculum. The supervising committee will oversee the student’s research and thesis or dissertation.

Master of Science in Biotechnology

36 semester credit hours minimum

Degree Objectives

The MS degree in biotechnology is intended to prepare students for careers in biotechnology and biomedicine and to assist currently employed professionals in enhancing their career opportunities.

Biotechnology captures the exciting possibilities provided by the decoding of the human genome and by advances in bioanalytical instrumentation, and the field is projected for continued rapid growth. The MS in Biotechnology is designed so that students may enter the program with a wide range of prior disciplinary backgrounds, prepare for and take the four core courses, and, by choice from a wide range of approved electives, tailor the remainder of the degree program to their career aspirations. In this manner, students may develop areas of additional depth in fields such as:

- molecular and cell biology
- chemistry
- engineering and computer science
- health care policy
- management and business administration

The MS in Biotechnology requires 36 semester credit hours of courses, typically twelve courses of three semester credit hours each. Students may also elect to prepare and defend a thesis; more than 36 semester credit hours may be required for such a program.

The MS in Biotechnology is administered by the Department of Biological Sciences. Students seeking further information or advisement should contact the Biological Sciences Department office.

Core Courses

The core consists of four courses: BIOL 5376 Applied Bioinformatics, BIOL 5381 Genomics, BIOL 6373 Proteomics, and BIOL 6384 Biotechnology Laboratory. BIOL 6384 Biotechnology Laboratory is a skills based course. Students must show that they have adequate laboratory skills in order to enroll in BIOL 6384. Students enrolled in the MS in Biotechnology program will have priority for enrollment in BIOL 6384.
The four core courses should be taken in the following order: **BIOL 5376** Applied Bioinformatics, **BIOL 5381** Genomics, **BIOL 6373** Proteomics, **BIOL 6384** Biotechnology Laboratory. Instructor consent is required for core courses taken out of this sequence.

**Program Policies**

The program is open to all students who hold a bachelor's degree, although those with laboratory science, mathematics, computer science, or engineering degrees are particularly encouraged to apply. In general, students will not be admitted to the MS in Biotechnology program if they require more than two courses in order to be ready to take the core courses.

Every student admitted to the MS in Biotechnology program shall consult with the program advisor(s) and develop a mutually agreed degree plan. All requests for deviations from the degree program described in this catalog shall be discussed first with a program advisor, who will forward the request to the Committee on Biotechnology for decision.

There are no formal prerequisites for most of the core courses, and a student, after obtaining consent from the program advisor, may attempt one or more core courses. However, the level of the BIOL core courses is such that most students will want to have mastered the material in the following courses:

- General Chemistry (two semesters, with lab), Organic Chemistry (two semesters, with lab)
- **BIOL 2311** Introduction to Modern Biology I (with workshop)
- **BIOL 3361** Biochemistry I or **BIOL 6352** Modern Biochemistry I
- **BIOL 3301** Classical and Molecular Genetics or **BIOL 6331** Molecular Genetics
- **BIOL 3302** Eukaryotic Molecular and Cell Biology or **BIOL 6356** Eukaryotic Molecular and Cell Biology

Students who elect to prepare and defend a thesis must satisfy the MS thesis procedures specified by the department of their thesis supervisor.

**Elective Courses**

As a general rule, any UT Dallas graduate course that is approved by the advisor as being relevant to the student's tailored degree plan may be taken as an elective for the Biotechnology MS program. Students should consult the program advisor for the current list of recommended electives.

**Master of Science in Molecular and Cell Biology**

*36 semester credit hours minimum*

All students seeking the Master of Science degree in Molecular and Cell Biology must satisfactorily complete a total of at least 36 graduate semester credit hours, which must include the following core courses:
Core Courses

- BIOL 5410 Biochemistry
- BIOL 5420 Molecular Biology
- BIOL 5460 Quantitative Biology
- BIOL 5440 Cell Biology

MS students intending to submit a thesis must, in addition to the core courses specified above, satisfactorily complete a further 20 semester credit hours of Biology courses which includes BIOL 6193 Colloquium in Molecular and Cell Biology, BIOL 8V01 Research in Molecular Biology, BIOL 6V98 Thesis, and a minimum of 6 semester credit hours of general electives for which a letter grade is assigned. The remainder of the semester credit hours usually reflects experimental research but may also be based on literature research as determined by mutual agreement of the student and Supervising Committee. For MS (thesis) students, the maximum number of Pass/Fail credits allowed within the 36 semester credit hour minimum is 13 semester credit hours.

MS (non-thesis) students must, in addition to the core courses specified, satisfactorily complete a minimum of four general elective courses in Biology (for which a letter grade is assigned) for a minimum of 9 semester credit hours, up to 11 semester credit hours of special electives, and/or, with approval of the graduate advisor, other graduate courses. For non-thesis MS students, the maximum number of Pass/Fail credits allowed within the 36 semester credit hour minimum is 11 semester credit hours.

Master of Science in Bioinformatics and Computational Biology

In addition to the above Master of Science degrees a bioinformatics and computational biology (BCBM) is offered jointly by the Departments of Mathematics and Molecular and Cell Biology. This program combines coursework from the disciplines of biology, computer science, and mathematics. The BCBM program seeks to answer the demand for a new breed of scientist who has fundamental understanding in the fields of biology, mathematics, statistics, and computer science. With this interdisciplinary training, these scientists will be well prepared to meet the demand and challenges that have arisen and will continue to develop in the biotechnology arena. Faculty from both Mathematics (MMS) and Biological Sciences participate in the Bioinformatics and Computational Biology program with the Mathematics Department serving as the administrative unit. Both departments participate in advising students.


Doctor of Philosophy in Molecular and Cell Biology

75 semester credit hours minimum beyond the baccalaureate degree
All PhD students must satisfactorily complete a total of at least 75 semester credit hours beyond the bachelor's degree and four core courses: BIOL 5410 Biochemistry, BIOL 5420 Molecular Biology, BIOL 5460 Quantitative Biology, and BIOL 5440 Cell Biology.

In the first year, PhD candidates must perform two laboratory rotations, and take BIOL 6V02 The Art of Scientific Presentation, and BIOL 6193 Colloquium in Molecular and Cell Biology. At the end of the first year, students are evaluated based upon performance in the core classes, laboratory rotations, and performance as teaching assistants (if applicable). Students who pass this evaluation must then pass an oral qualifying examination within three semesters to determine the student's aptitude for continuation of dissertation research.

After the first year, students must also complete a minimum of four general elective courses in Biology (for which a letter grade is assigned). A dissertation defense will be conducted after the dissertation has been written. All students are required to submit (and have accepted for publication) a minimum of one manuscript for publication in an internationally recognized, peer-reviewed scientific journal. There is no foreign language requirement.
School of Natural Sciences and Mathematics

Bioinformatics and Computational Biology Program

Program Faculty


Associate Professors: Swati Biswas, Yan Cao

Assistant Professor: Min Chen

Affiliated Faculty: Zhenyu Xuan, Hyuntae Yoo, Michael Qiwei Zhang

Master of Science in Bioinformatics and Computational Biology

36 semester credit hours minimum

The Master of Science in Bioinformatics and Computational Biology (BCBM) is offered jointly by the Departments of Mathematical Sciences and Biological Sciences. This program will combine coursework from the disciplines of biology, computer science, and mathematics. The BCBM program seeks to answer the demand for a new breed of scientist who has fundamental understanding in the fields of biology, mathematics, statistics, and computer science. With this interdisciplinary training, these scientists will be well prepared to meet the demand and challenges that have arisen and will continue to develop in the biotechnology arena.

Faculty from both Mathematical Sciences (MMS) and Biological Sciences will participate in the Bioinformatics and Computational Biology program, with the Mathematical Sciences Department serving as the administrative unit. Both departments will participate in advising students.

For the master's degree in Bioinformatics and Computational Biology, beginning students are expected to have completed multivariate calculus, linear algebra, two semesters of general chemistry, two semester of organic chemistry, two semesters of general physics, programming in C/C++, and two semesters of biology.

Requirements for completing a degree in BCBM are:

Core Courses

BIOL 5410 Biochemistry
BIOL 5420 Molecular Biology
BIOL 5381 Genomics
STAT 5351 Probability and Statistics I
STAT 5352 Probability and Statistics II
MATH 6341 Bioinformatics

Additional Core Courses for the Computational Biology Track
MATH 6313 Numerical Analysis
MATH 6343 Computational Biology
MATH 6345 Mathematical Methods in Medicine and Biology

Additional Core Courses for the Bioinformatics Track
CS 5333 Discrete Structures
CS 5343 Algorithms Analysis and Data Structures
CS 6360 Database Design

Elective Courses
A minimum of 7 semester credit hours of electives, approved by the student's advisor. Typically, electives are 6000- and 7000- level courses in mathematical sciences, biology or computer science. Courses from other disciplines may also be used upon approval.
School of Natural Sciences and Mathematics

Department of Chemistry and Biochemistry

Department Faculty

Robert A. Welch Chair in Chemistry; Professors of Chemistry: Ray H. Baughman

Cecil and Ida Green Distinguished Chair in Systems Biology; Professor of Chemistry: A. Dean

Sherry

Distinguished Chair in Natural Sciences and Mathematics; Dean of the School of Natural Sciences and Mathematics: Bruce M. Novak

Professors: Kenneth Balkus Jr., Julia Chan, Rockford Draper, John P. Ferraris, Jinming Gao, Bruce E. Gnade, Inga H. Musselman

Professor Emeritus: Richard A. Caldwell

Research Professors: Garry E. Kiefer, Duck Ho (D. H.) Yang

Associate Professors: Sung-Mo Ahn, Michael C. Biewer, Gregg Dieckmann, Warren Goux, Steven R. Nielsen, Paul Pantano, John W. Sibert IV, Mihaela C. Stefan, Jie Zheng

Assistant Professors: Jeremiah Gassensmith, Jiyong Lee, Ronald A. Smaldone

Senior Lecturers: Sergio Cortes, Sandhya Gavva, Jason McAfee, Yanping Qin, Amandeep Sra, Claudia Taenzler

Affiliated Faculty: Yves Chabal, Dev D. Gelb, Manuel Quevedo-Cope, Walter E. Voit, Amy V. Walker, Anvar A. Zakhidov

Objectives

The PhD program is designed to produce graduates with a focus on innovation and problem solving in interdisciplinary cutting edge research areas such as organic and inorganic materials, nanotechnology, biotechnology, and polymer chemistry. These graduates, with their broad course background, research skills, and practical attitudes should find ready employment in industry or academic positions. A spectrum of courses provides the student with a broad knowledge of chemistry.

The Master of Science program offers students the opportunity to prepare for positions in industry, for further training in related scientific fields, or for further training in chemistry.

Facilities

The department has the equipment and facilities necessary for routine use by its faculty and students in teaching and research. Larger items include: 270 MHz (2), 400 MHz, and 500 MHz multi-nuclear FT-NMR spectrometers; powder and single crystal x-ray diffractometer; MA DI mass spectrometer, several GC-MS
and HP C-MS; assorted spectrophotometers utilizing fluorescence, phosphorescence and absorption; peptide synthesizers; gel permeation chromatographs; workstations with molecular modeling software; and scanning tunneling and atomic force microscopes. Chemistry also participates in the Alan G. MacDiarmid NanoTech Institute, which houses instrumentation for modern materials science research. Facilities external to chemistry, but readily available to its use, include a library, the computer center, the cleanroom, and well-equipped machine and electronics shops.

Admission Requirements

The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

Undergraduate preparation equivalent to the degree of Bachelor of Science in Chemistry is required. The Chemistry program has no other requirements above the general admission requirements. However, admission is competitive and is decided case by case on the basis of the quality of previous relevant academic work, GRE combined score of 295 for the verbal and quantitative components, letters of reference, the student's statement of academic interests and, for foreign students, evidence of fluency in English. Foreign students with TOEFL scores less than 600 (paper test), 250 (computer test), or 100 (internet test) are admitted only in special circumstances.

Degree Requirements

The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

Master of Science in Chemistry

30 semester credit hours minimum

A minimum of 30 total graduate semester credit hours is required. The MS degree can be pursued on a full- or part-time basis.

Graduate students in chemistry are expected to demonstrate fundamental knowledge of lecture and laboratory skills by completing the following courses with a grade of B or better.

Core Courses:

- CHEM 5314 Advanced Physical Chemistry
- CHEM 5331 Advanced Inorganic Chemistry I
- CHEM 5341 Advanced Inorganic Chemistry I
- CHEM 5355 Analytical Techniques I

Doctor of Philosophy in Chemistry

75 semester credit hours minimum beyond the baccalaureate degree
Normally pursued by full-time students enrolled in a minimum of 9 semester credit hours of approved graduate level courses per semester.

Other Course Requirements

In addition to the 12-semester credit hour core course requirements listed above, students seeking the PhD degree must take two upper-level elective courses that are approved by the student's faculty research advisor and the Chemistry graduate advisor. PhD students are expected to complete these six required courses within the first two years of their enrollment. CHEM 8399 is also required as part of the preparation of the dissertation. Additional courses may be required by the student's Supervisory Committee.

Well-prepared students may request substitution of portions of the course requirements from the Committee on Graduate Studies in Chemistry. At least three organi:ed courses must be taken at The University of Texas at Dallas. The opportunity exists to take elective courses during their second and subsequent years.

Qualifying Examination: Original Research Proposal

All PhD students must take the qualifying examination. In the second year, students seeking the PhD degree are required to write, present, and defend an original research proposal. In addition to providing valuable experience to the student, this exam is used to assess the student's originality and skills in organizing an effective approach to solving a novel problem. The results of this examination will be one criterion upon which admission to doctoral candidacy will be judged.

Research

Students have the option of completing a thesis master's degree as part of their doctoral candidacy preparation, unless this requirement has been satisfied at the time of admission. The doctoral research project may be conducted in the same laboratory as the master's degree research or, in order to gain a broader research experience, in another laboratory. A manuscript embodying a substantial portion of the PhD dissertation research accomplished by the student must be submitted to a suitable professional refereed journal prior to the public seminar and dissertation defense. A public seminar, successful defense of the dissertation, and its acceptance by the Supervising Committee and the Graduate Dean conclude the requirements for the PhD.

Representative Research Areas

Within the Chemistry program, opportunities exist for coursework and/or research in nanotechnology, biochemistry/biotechnology, organic, inorganic, materials, analytical, and physical chemistry. The opportunity to take coursework in several of the other university programs allows the student to prepare for interdisciplinary work. Specific topics within these broad research areas include nanoscience (carbon nanotubes, sensors, actuators, nanoscale devices, synthesis of nanoporous materials); organic solid-state and polymer chemistry (energy storage, electrochromism, light-emitting polymers, solar cells, membrane separations); inorganic solid-state (::eolites, membranes, laser ablation, sensors, fuel cells, electrospinning); biological (::M:: structural biology, using ::M:: active tracers to follow metabolism in cells, isolated tissues and in vivo); supramolecular chemistry (design of novel host-guest systems; biologically responsive ::M:: agents, design, synthesis and study of macrocyclic receptors with applications in catalysis, materials science, and medicine); scanning probe microscopy (instrument development, image contrast, application to polymer microstructure); bioanalytical and bionano chemistry, synthetic chemistry (macrocycles, metalloprotein function); biochemistry/enzymology (study of
oxidative stress; oxidative metabolism of signaling molecules; molecular modeling; and catalysis).
School of Natural Sciences and Mathematics

Department of Geosciences

Department Faculty

Professors: Carlos V. Aiken, John F. Ferguson, John W. Geissman, William I. Manton, George A. McMechan, John S. Oldow, Robert J. Stern

Professors Emeritus: David E. Dunn, Richard M. Mitterer, Emile A. Pessagno Jr., Dean C. Presnall, Robert H.utford

Associate Professors: Thomas H. Erikowski

Associate Professor Emeritus: James L. Carter

Senior Lecturers: William R. Griffin, Ignacio Pujana

Objectives

The basic objective of the Department of Geosciences Graduate Program is to provide students with a broad fundamental background in geosciences as well as an in-depth emphasis in a particular specialty.

The Master of Science degree (thesis option) is designed for students desiring research experience in a specific area of the geosciences. This degree will prepare the student for professional employment in the energy, mining, or environmental industries or government, as well as those seeking a doctoral degree. The Master of Science degree (non-thesis option) is designed for students who are employed or seek employment in the energy, mining, or environmental industries, and the industrial application of Geospatial Information Sciences (GIS).

The Doctor of Philosophy degree in Geosciences emphasizes basic research in one of the specialties in geosciences and is designed to prepare students for advanced positions in the energy, environmental or mining professions in industry or government, or for positions in academia.

The Doctor of Philosophy degree in Geospatial Information Sciences (GIS) is supported by the Department of Geosciences, the School of Economic, Political and Policy Sciences, and the Erik Jonsson School of Engineering and Computer Science. The degree reflects geospatial information science origins at the confluence of work in multiple disciplines. The degree focuses on advancement of the technology, its associated theory, and the enhancement of its applications. Graduates of this program will be well suited to advanced positions in the geospatial technology industry and academic positions.

Facilities

Departmental research facilities include: digital imaging petrographic microscopes, rock preparation and
mineral separation facilities. Separate research facilities for computing, hydrology, geophysics and paleomagnetism/rock magnetism are described below.

Computing Facilities
The Geosciences Department has a large number of networked Windows/PC and Unix/linux workstations in several laboratories accessible to the students and faculty. A number of laser printers are available, including a color printer. A large format HP 2500CP printer/plotter is available for creating maps and posters. A variety of software licenses are supported for GIS, remote sensing, image processing, geophysical data processing, graphics and visualization. Large scale computing is supported by two state of the art Linux clusters, one with 32 and one with 192 64-bitcores, and 30 terabytes of disk. A GeoWall visualization facility permits immersive interaction with 3-D data and is supported by high-resolution 3D HDTV visualization systems.

Hydrology Laboratory
Field equipment for measuring ground and surface water flow and chemistry, including borehole bailers, electric water level meter, FlowProbe hand-held flow meter, Hach D.E.2010 Basic Water Quality Lab (field spectrophotometer, pH and salinity meters), and YSI-85 D.E/salinity/conductivity meter. Software for modeling water flow and transport, including general interfaces GMS and WMS, Hydrus-2D (unsaturated flow and transport), T.U.UGH2 and Tetrad (2-3D multiphase flow and transport), and many public-domain models. Hardware and software for visualizing model results, including Windows and Linux workstations.

Geophysics Facilities
Geophysical research is supported by two Scintrex CG-5 gravimeters; a variety of surveying instruments including a Nikon theodolite and data collector, a T.P.C.GPT 3005 W total station electronic distance meter and theodolite, two laser Atlanta Advantage CI reflectorless laser rangefinders, a Leica MP 3800 laser scanner and a SM 620 laser scanner, seven dual frequency Leica Viva T.GPS systems, three dual frequency Topcon Hyper.T.GPS systems (6 receivers), nine dual frequency Leica S.19500 GPS receiver systems with choke-ring antennas, a Trimble Geo.T GPS system, a Trimble GeoHT GPS system and GPS post-processing software including Leica S.1, Trimble Pathfinder Office and E.ESE. A Geometrics proton-procession total field magnetometer system, An AGI SuperSting R1/IP DC resistivity and induced polarion system is available for near surface electrical conductivity mapping. Seismic and radar equipment include a Geometrics 48-channel floating point seismic acquisition system with Betsy, hammer, and explosive sources for shallow to deep exploration; and pulse E.EIV, 1000 and P.Ground penetrating radars.

Paleomagnetism and Rock Magnetism Laboratory
The newly completed Paleomagnetism and Rock Magnetism laboratory, including a low magnetic field induction space designed and constructed by Dr. Gary Scott of Lodestar Magnetics, is about 2,600 sq. feet in footprint, and includes an attached sample preparation/wet chemistry laboratory, equipped with a fume hood, and an attached meeting/office space area for graduate and undergraduate students. The laboratory includes all non-magnetic furniture and cabinetry installed by Dr. Gary Scott and colleagues in the low magnetic field space. The workhorse instrument for all remanence measurements is a 2G Enterprises Model 760. A horiontal access, three measurement axis (DC S.UID) superconducting rock magnetometer, equipped with DC S.UIDS and superinsulation. A fully automated specimen handling system is interfaced with an online alternating field (AF) demagnetizer capable of reaching peak inductions of 160 mT, allowing for automated demagnetization of specimens. We have initiated the
purchase of a new, pulse-cooled magnetometer from 2G Enterprises, with anticipated delivery in early 2013. AGICO JR-5 and AGICO JR-6 spinner magnetometers allow for the remanence measurements in both automated and static mode. Thermal demagnetization is conducted using Shaw (MMTD), and three ASC (TD48) furnaces, a Schonstedt (TSD-1), as well as a home built large-volume, three heating zone furnace capable of heating/cooling in an inert atmosphere. A large-volume furnace is capable of conducting long-term, elevated temperature magnetic viscosity experiments in a controlled atmosphere. The laboratory includes two ASC impulse magnetizers, with the full range of coil sizes. Two home built impulse magnetizers capable of peak DC induction of 1.3 T and 3.4 T and a horizontal Curie balance for measuring saturation magnetization as a function of temperature in an inert atmosphere. An additional, home built impulse magnetizer, capable of reaching about 9 T, is currently being tested. Two ASC D-2000 AF demagnetizers provide peak field values of 200 mT and are capable of imparting anhysteretic remanent magnetization (ARM) and partial ARM with DC fields up to 1.0 mT. A D-Tech coil interfaced with an externally tuned Schonstedt GSD 1 AF demagnetizer also allows for AF demagnetization and ARM acquisition. Chemical demagnetizations are carried out in a fume hood environment in the laboratory. The leaching and drying of specimens is carried out in a field-reduced environment (less than 300 mT) in the fume hood. A toppable ASC Y-3S, Y-4S, and MF-1-FA automated susceptibility systems allow bulk and anisotropy of magnetic susceptibility measurements to be made in both static and automated modes. The ASC Y-3S and MF-1-FA susceptibility units are interfaced with a CS-4 furnace assembly for measuring susceptibility as a function of temperature in an inert atmosphere. The laboratory also has over ten sets of mu-metal shields of different volumes and geometries, to provide very low magnetic field environments for different purposes. We are equipped for all aspects of field sampling and specimen preparation, including four complete sets of drilling equipment and three dual bladed trim saws. An Olympus BX51TRF-5 transmitted light/reflected light microscope, equipped with a dedicated DP72, 12.8 mp digital camera. A Princeton Instruments AGM/VSM, equipped with a high temperature furnace assembly, acquired by the Physics Department in 2010, has been transferred to the Geosciences Department, and a space remote from the Paleomagnetism laboratory houses the magnetometer and internal water chiller system. The Physics Department at UT Dallas maintains a Quantum Designs Magnetic Property Measurement System and this is available for use by the PI and students. The UT Dallas Paleomagnetism laboratory has dedicated field vehicle.

## Admission Requirements

The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

Applicants are typically expected to take the GRE General Test (Verbal, Quantitative, and Analytical Writing). A combined score of no less than 300 on the Verbal and Quantitative portions of the exam is advisable based on our experience with student success in the program.

Entering students are expected to have completed the equivalent of the university's BS degree in Geosciences, including courses in physics, mathematics and chemistry. Students whose undergraduate training is in a science other than geology or geophysics are admitted to the program when their previous course work complements or supports their intended research interests. Deficiencies in the undergraduate background of admitted students will be addressed through a sequence of four required graduate courses. It is understood that the minimum course requirements for the intended degree, as specified below, apply to well-prepared students.
Degree Requirements

The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

Additional requirements are specified below for each degree.

Master of Science in Geosciences

36 semester credit hours minimum

Thesis Option

All students seeking the Master of Science degree (thesis option) must satisfactorily complete the following requirements (a minimum of 36 graduate semester credit hours):

- GEOS 5315 The Earth: An Overview
- GEOS 5325 Remote Sensing Fundamentals or GEOS 6381 Geographic Information Systems Fundamentals
- GEOS 5375 Tectonics
- GEOS 5387 Applied Geophysics

A minimum of 15 semester credit hours of additional graduate courses.

A minimum of 9 semester credit hours of thesis research including GEOS 6398 Thesis and submit an acceptable thesis.

In addition to the above requirements, students seeking the MS degree (thesis option) must submit, no later than the second semester of enrollment, an acceptable degree plan, and a research proposal to their supervising committee. Upon completion of the thesis research, the MS degree candidate will publicly defend the thesis.

Non-Thesis Option

All students seeking the Master of Science degree (non-thesis option) must satisfactorily complete a minimum of 36 graduate semester credit hours including the specified Geosciences courses below.

- GEOS 5315 The Earth: An Overview
- GEOS 5325 Remote Sensing Fundamentals or GEOS 6381 Geographic Information Systems Fundamentals
- GEOS 5375 Tectonics
- GEOS 5387 Applied Geophysics

A minimum of 21 semester credit hours of additional graduate courses, to be selected in consultation with the graduate advisor.

Research: An 8000 level, 3-semester credit hour research course.

In addition to the above requirements, students seeking the MS degree (non-thesis option) must
Master of Science in Geospatial Information Sciences

36 semester credit hours minimum

The Master of Science in Geospatial Information Sciences (MGIS) is a professional program that is offered jointly by the School of Economic, Political and Policy Sciences and the School of Natural Sciences and Mathematics. The program focuses on the use of Geographic Information Systems (GIS) and associated technologies such as remote sensing and global positioning systems for managing spatially referenced information. Students are provided with the concepts underlying GIS, the skills for implementing GIS projects in public and private sector organizations, and the ability to use GIS in pure or applied research in substantive areas. Prospective students should apply using established procedures to either Geosciences or the School of Economic, Political and Policy Sciences depending on their background.

For the Master's degree in Geospatial Information Sciences, beginning students are expected to have completed college mathematics through calculus and at least one programming or computer applications course or possess equivalent knowledge. Students must have the equivalent of GISC 6381 Geographic Information Systems Fundamentals and GISC 6382 Applied Geographic Information Systems, or they must take these courses at UT Dallas in addition to the 36 semester credit hours required for the MGIS. Additional details of the curriculum can be found under Master of Science in Geospatial Information Sciences, in the School of Economic, Political and Policy Sciences section of the catalog.

Doctor of Philosophy in Geosciences

75 semester credit hours minimum beyond the baccalaureate degree

All students seeking a Doctor of Philosophy degree in Geosciences must satisfactorily complete the following requirements (75 graduate semester credit hours minimum).

- GEOS 5315 The Earth: An Overview
- GEOS 5325 Remote Sensing Fundamentals or GEOS 6381 Geographic Information Systems Fundamentals
- GEOS 5375 Tectonics
- GEOS 5387 Applied Geophysics

A minimum of 18 semester credit hours of additional Geosciences graduate courses to be specified by the student's research supervisory committee and the graduate advisor.

A minimum of 36 semester credit hours of additional graduate courses or research.

A minimum of 9 semester credit hours of thesis research including GEOS 8399 Dissertation and submit an acceptable dissertation.

In addition to the above course requirements, students seeking the PhD degree must submit an acceptable degree plan and research proposal describing the intended project to be completed for the dissertation. Students entering with a master's should complete this proposal in the third semester; students entering
without a master's have until the fourth semester. An oral qualifying examination covering the broad background and detailed knowledge relating to the student's specialization and research proposal will be held in the same semester that the proposal is submitted. After satisfactory performance on the Qualifying Examination, the student will complete and publicly defend the dissertation. Also, see the university's general degree requirements. Please note that more detailed instructions for Geosciences Graduate students are given in the Guidelines for Graduate Students - Geosciences that is available in the office of the Department Head.

**Doctor of Philosophy in Geospatial Information Sciences**

*75 semester credit hours minimum beyond the baccalaureate degree*

The Doctor of Philosophy in Geospatial Information Sciences is an advanced degree offered jointly by the School of Natural Sciences and Mathematics, the School of Economic, Political and Policy Sciences, and the Erik Jonsson School of Engineering and Computer Science. Geospatial information is a unifying theme across a wide range of disciplines and the unique organization of this program permits a diverse range of expertise to the prospective student. The PhD in GIS is intended to go beyond the MS in GIS degree in terms of analysis, the creation of new technology, and the novel application of geospatial information technology. This program will prepare students for leadership positions in academy, industry or government.

Individual students can concentrate in particular discipline areas. The Geosciences component focuses on remote sensing and mapping technologies, including global positioning satellite and three-dimensional laser ranging based data capture as well as other imaging technologies. In particular, these methodologies are applied to geological, hydrological, and environmental problems associated with the physical Earth.

It is expected that students will enter this program with diverse educational backgrounds. Applicants may have bachelor's, master's or advanced degrees in any relevant field including computer science, economics, engineering, geography, geology, information system management, resource management, geographical information science, and possibly others. At least a bachelor's degree from an institution of higher education with an undergraduate/graduate grade point average of 3.25 or better is required. A GRE score of 300 or higher for the combined quantitative and verbal components is desirable. Fluency in written and spoken English is required. Please see detailed degree requirements under Doctor of Philosophy in Geospatial Information Sciences, listed in the School of Natural Sciences and Mathematics section of the catalog.
School of Natural Sciences and Mathematics

Department of Mathematical Sciences

Department Faculty


Associate Professors: Swati Biswas, Yan Cao, Pankaj Choudhary, Mieczyslaw Dabkowski, Yulia Gel

Assistant Professors: Mohammad Akbar, Maxim Arnold, Chihargab Chattopadhyay, Min Chen, Tobias Hagg, Jingwen Hu, Frank Koniechta, Yifei Lou, Reg Makarenkov, Tomoki Shawa, Jiaongxia (Joanne) Song, Anh Tran

Clinical Professor: Ronald D. Dearing, Natalia Humphreys

Senior Lecturers III: Bentley T. Garrett, David Lewis, Paul Stanford

Senior Lecturers II: Manjula Foley, Yuly Koshevnik, Brady McCary, William M. Scott

Senior Lecturers I: Mohammad Ahsan, Kelly Aman, Diana Cogan, Malgora Dabrowska, Anatoly Eydel on, Farid Ifachi ov, Derege Mussa, My Linh Nguyen, Jigarkumar Patel

Affiliated Faculty: Hervé Abdi, Titu Andreescu, Alain Ansousan, Raimund Reber, John Wiorkowski

Adjunct Faculty from the Research for Mathematics of the Mexican Council and Technology (CIMAT): Carlos G. me accessibility Valenzuela

Objectives

The Mathematical Sciences Department at The University of Texas at Dallas offers graduate study in six specialties: Actuarial Science, Applied Mathematics, Engineering Mathematics, Mathematics, Statistics, and an interdisciplinary degree in Bioinformatics and Computational Biology. The degree programs offer students the opportunity to prepare for careers in these disciplines themselves or in any of the many other fields for which these disciplines are such indispensable tools. As other sciences develop, problems which require the use of these tools are numerous and pressing.

In addition to a wide range of courses in mathematics and statistics, the Mathematical Sciences Department offers a unique selection of courses that consider mathematical and computational aspects of engineering, biology and other scientific problems.

The Master of Science degree programs are designed for persons seeking specialties in Applied Mathematics, Engineering Mathematics, Mathematics, Statistics, or Actuarial Science, or in Bioinformatics and
The Master of Science degree is available also for those who plan to teach Mathematics or Statistics above the remedial level at a community college or at a college or university. The Master of Science degree is recommended as a minimum, since an earned doctorate is sometimes required.

For information concerning the Master of Arts in Teaching in Mathematics Education, designed for persons who are teaching in grades 6-12, see the Science and Mathematics Education section.

The Doctor of Philosophy degree programs cover two basic areas of concentration: Statistics and Applied Mathematics. They are designed for those who plan to pursue academic, government, financial, actuarial, or industrial careers.

Facilities
The faculty, staff, and students have access to a large network of workstations and servers on campus.

Admission Requirements
The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

Specific additional admission requirements for students in degree programs in the Department of Mathematical Sciences follow. Students lacking undergraduate prerequisites for graduate courses in their area must complete these prerequisites or receive approval from the graduate advisor and the course instructor before registering.

One of the components of a student's academic history which is evaluated when the student is seeking admission to the graduate program is his/her performance on certain standardized tests. Since these tests are designed to indicate only the student's potential for graduate study, they are used in conjunction with other measures of student proficiency, such as GPA (grade point average), etc., in determining the admission status of a potential graduate student. Accordingly, there is no rigid minimum cutoff score for admission to the program. Most applicants admitted to either the MS or PhD programs have GRE scores of at least 143 verbal, 155 quantitative, and 310 combined. However, exceptions are made in some cases when other credentials are especially strong. Higher standards prevail for applicants seeking Teaching Assistantships.

Master of Science in Actuarial Science Program
36 semester credit hours minimum

Program Objective
The objective of the program is to educate future leaders of the actuarial industry with training in actuarial theory and methods in a wide spectrum of actuarial applications involving probabilistic and statistical models. All students will be prepared to take five actuarial preliminary exams and will take two advanced actuarial classes to prepare for professional accreditation. Furthermore, students who did not take classes required for VEE (Validation of Educational Experience) credits in statistics, finance, and economics will...
have such opportunity. With this combined knowledge of mathematics particularly of probability, statistics, and decision theory together with knowledge of financial mathematics and insurance, the expected passing of five actuarial exams, and the three required VEE credits, graduates of the program will be able to work as senior actuaries in insurance, consulting, finance, government, and emerging markets.

**Course Requirements**

The university's general degree requirements are discussed on the [Graduate Policies and Procedures page](catalog.utdallas.edu/2015/graduate/policies/policy). The minimal total required number of classes for graduation is 36 semester credit hours. Among them, 27 semester credit hours of required courses and 9 semester credit hours of electives.

**Required Courses: 27 semester credit hours**

- STAT 5351 Probability and Statistics I
- STAT 5352 Probability and Statistics II
- ACTS 6301 Theory of Actuarial Models: Life Contingencies I
- ACTS 6303 Theory of Actuarial Models: Life Contingencies II
- ACTS 6304 Construction and Evaluation of Actuarial Models
- ACTS 6305 Construction and Evaluation of Actuarial Models II
- ACTS 6306 Advanced Actuarial Applications
- ACTS 6308 Actuarial Financial Mathematics

**Prescribed Elective Courses: 9 semester credit hours**

For the prescribed elective courses select three courses from the following:

- STAT 6337 Advanced Statistical Models
- STAT 6329 Applied Probability and Stochastic Processes
- STAT 6338 Advanced Statistical Methods II
- STAT 6343 Experimental Design
- STAT 6347 Applied Time Series Analysis
- STAT 7338 Time Series Modeling and Filtering
- STAT 6348 Applied Multivariate Analysis
- STAT 6390 Topics in Statistics: Nonparametric and Robust Statistical Methods
MATH 6313 Numerical Analysis
STAT 6331 Statistical Inference I
FIN 6301 Financial Management10
FIN 6308 Regulation of Business and Financial Markets
FIN 6310 Investment Management
FIN 6314 Fixed Income Securities
FIN 6300 Options and Future Markets
FIN 6382 Numerical Methods in Finance
MECO 6303 Business Economics11
ACCT 6305 Accounting for Managers
PPPE 6321 Economics for Public Policy

Preparation for Actuarial Exams

These classes prepare for the three preliminary actuarial examinations jointly administered by the Society of Actuaries (SOA), Casualty Actuarial Society (CAS) and the Canadian Institute of Actuaries (CIA):

Exam 1/P: STAT 5351 and STAT 5352
Exam 2/FM: ACTS 6308
Exam 3/L: M: C: ACTS 6301
Exam 3F/MFE: ACTS 6302
Exam 4/C: ACTS 6304
Exam 5/FAP: ACTS 6306

Validation by Educational Experience (VEE) Credits

Applied Statistical Methods: STAT 6337 and STAT 6347
Corporate Finance: FIN 6301
Economics: MECO 6303

Master of Science in Mathematics

36 semester credit hours minimum
The university's general degree requirements are discussed on the [Graduate Policies and Procedures](catalog.utdallas.edu/2015/graduate/policies/policy) page.

Students seeking a Master of Science in Mathematics must complete a total of 12 three-semester credit hour courses. In some cases, credit for 3 semester credit hours is approved for good mathematics background. The student may choose a thesis plan or a non-thesis plan. In the thesis plan, the thesis replaces two elective courses with completion of an approved thesis (six thesis semester credit hours). The thesis is directed by a Supervising Professor and must be approved by the Head of the Mathematical Sciences Department.

Each student must earn a 3.0 minimum GPA in the courses listed for the student's program.

**Applied Mathematics Specialization (MS)**

- MATH 5301 Elementary Analysis I (or equivalent)
- MATH 5302 Elementary Analysis II (or equivalent)
- MATH 6303 Theory of Complex Functions I
- MATH 6313 Numerical Analysis
- MATH 6315 Ordinary Differential Equations
- MATH 6318 Numerical Analysis of Differential Equations
- MATH 6319 Principles and Techniques in Applied Mathematics I
- MATH 6320 Principles and Techniques in Applied Mathematics II
- MATH 6308 Inverse Problems and Applications
- MATH 6321 Optimization

Plus two guided electives.

**Engineering Mathematics Specialization (MS)**

- MATH 5301 Elementary Analysis I (or equivalent)
- MATH 5302 Elementary Analysis II (or equivalent)
- MATH 6303 Theory of Complex Functions I
- MATH 6313 Numerical Analysis
- MATH 6315 Ordinary Differential Equations
- MATH 6318 Numerical Analysis of Differential Equations
- MATH 6319 Principles and Techniques in Applied Mathematics I
- MATH 6320 Principles and Techniques in Applied Mathematics II
- MATH 6331 Linear Systems and Signals
- MATH 6305 Mathematics of Signal Processing

Plus two guided electives.
Mathematics Specialization (MS)

- **MATH 5301** Elementary Analysis I (or equivalent)
- **MATH 5302** Elementary Analysis II (or equivalent)
- **MATH 6303** Theory of Complex Functions I
- **MATH 6313** Numerical Analysis
- **MATH 6315** Ordinary Differential Equations
- **MATH 6318** Numerical Analysis of Differential Equations
- **MATH 6301** Real Analysis
- **MATH 6302** Functional Analysis I
- **MATH 6311** Abstract Algebra I
- **MATH 6309** Differential Geometry or **MATH 6310** Topology

Plus two guided electives.

Statistics Specialization (MS)

1. Students seeking a Master of Science in Mathematics with a specialization in Statistics must complete the following core courses:
   - **STAT 6331** Statistical Inference I
   - **STAT 6337** Advanced Statistical Methods I
   - **STAT 6338** Advanced Statistical Methods II
   - **STAT 6339** Linear Statistical Models
   - **STAT 6341** Numerical Linear Algebra and Statistical Computing

2. Two courses selected from different specialization groups:

   **Statistics Specialization Group One**
   - **STAT 6329** Applied Probability and Stochastic Processes
   - **STAT 6343** Experimental Design
   - **STAT 7334** Nonparametric and Robust Statistical Methods

   **Statistics Specialization Group Two**
   - **STAT 6348** Applied Multivariate Analysis
   - **STAT 7331** Multivariate Analysis

   **Statistics Specialization Group Three**
   - **STAT 6347** Applied Time Series Analysis
3. Students must choose remaining courses as electives approved by the graduate advisor for Statistics. Up to two of the following prerequisite 5000-level courses may be counted as electives:

- MATH 5301 Elementary Analysis I
- MATH 5302 Elementary Analysis II
- STAT 5351 Probability and Statistics I
- STAT 5352 Probability and Statistics II

Other Requirements

Electives must be approved by the assigned graduate advisor. Typically, electives are 6000- and 7000-level Mathematics or Statistics courses. Courses from other disciplines may also be used upon approval. Substitutions for required courses may be made if approved by the assigned graduate advisor. Instructors may substitute stated prerequisites for students with equivalent experience.

Master of Science in Bioinformatics and Computational Biology

36 semester credit hours minimum

The Master of Science in Bioinformatics and Computational Biology (BCBM) is offered jointly by the Departments of Mathematical Sciences and Biological Sciences. This program will combine coursework from the disciplines of biology, computer science, and mathematics. The BCBM program seeks to answer the demand for a new breed of scientist who has fundamental understanding in the fields of biology, mathematics, statistics, and computer science. With this interdisciplinary training, these scientists will be well prepared to meet the demand and challenges that have arisen and will continue to develop in the biotechnology arena.

Complete information about the Master of Science in Bioinformatics and Computational Biology Program is available at catalog.utdallas.edu/2015/graduate/programs/nsm/bioinformatics-and-computational-biology.

Doctor of Philosophy in Mathematics

75 semester credit hours minimum beyond the baccalaureate degree

The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2015/graduate/policies/policy).

Each Doctor of Philosophy degree program is tailored to the student. The student must arrange a course program with the guidance and approval of the graduate advisor. Adjustments can be made as the student's interests develop and a specific dissertation topic is chosen. A minimum of 75 semester credit hours beyond the bachelor's degree is required.
Applied Mathematics Specialization (PhD)

MATH 6301 Real Analysis
MATH 6302 Functional Analysis I
MATH 6303 Theory of Complex Functions I
MATH 6309 Differential Geometry or MATH 6310 Topology
MATH 6311 Abstract Algebra I
MATH 6313 Numerical Analysis
MATH 6316 Differential Equations
MATH 6318 Numerical Analysis of Differential Equations
MATH 6319 Principles and Techniques in Applied Mathematics I
MATH 6320 Principles and Techniques in Applied Mathematics II
MATH 7313 Partial Differential Equations I
MATH 7319 Functional Analysis II

Statistics Specialization (PhD)

STAT 6331 Statistical Inference I
STAT 6332 Statistical Inference II
STAT 6337 Advanced Statistical Methods I
STAT 6338 Advanced Statistical Methods II
STAT 6339 Linear Statistical Models
STAT 6344 Probability Theory I

Three courses approved by the student's PhD advisor from the following list:

STAT 7330 Decision Theory and Bayesian Inference
STAT 7331 Multivariate Analysis
STAT 7334 Nonparametric and Robust Statistics Statistical Methods
STAT 7338 Time Series Modeling and Filtering
STAT 7345 Advanced Probability and Stochastic Processes

Electives and Dissertation

An additional 18-24 semester credit hours for Applied Mathematics and 18-24 semester credit hours for Statistics designed for the student's area of specialization are taken as electives in a degree plan designed by the student and the graduate advisor. This plan is subject to approval by the Department Head. After completion of the first 3 or 4 academic semesters of the course program, the student must pass a PhD qualifying Examination in order to continue on to the research and dissertation phase of the PhD program. Finally, a dissertation is required and must be approved by the graduate program. Areas of specialization include, for example:
Applied Mathematics:
applied analysis, biomathematics, differential equations, relativity, scattering theory, systems theory, signal processing.

Statistics:
statistical inference, applied statistics, biostatistics, statistical computing, probability, stochastic processes, time series analysis, multivariate analysis, nonparametric and robust statistics, asymptotic theory.

Other specializations are possible, including interdisciplinary topics. There must be available a dissertation research advisor or group of dissertation advisors willing to supervise and guide the student. A dissertation Supervising Committee should be formed in accordance with the UT Dallas policy memorandum (UTDPP1052). The dissertation may be in Applied Mathematics or in Statistics exclusively, or it may include considerable work in an area of application.

Research
Within the Mathematical Sciences Department opportunities exist for work and/or research in Applied Mathematics, Engineering Mathematics, Mathematics, and Statistics. The opportunity to take coursework in several of the other university programs also allows the student to prepare for interdisciplinary work. Such coursework must be approved by the assigned graduate advisor.

Special topics within the Applied Mathematics research area include functional analysis, operator theory, differential and integral equations, optimization, numerical analysis, system theory and control with application in material and molecular sciences, inverse problems with applications in geosciences and medical sciences, relativistic cosmology, differential geometry, applications of topology to biology, mathematical logic, quantum computation and mathematical and computational biology with applications in cardiovascular physiology, neurobiology and cell biology.

Special topics within the Statistics research area include: probability theory, applied probability, stochastic processes, mathematical statistics, statistical inference, asymptotic theory, time series analysis, Bayesian analysis, robust multivariate statistical methods, robust linear models, robust and nonparametric methods, nonparametric curve estimation, sequential analysis, statistical computing, remote sensing, change-point problems, and spatial statistics.

For a complete list of faculty and their areas of research, visit the Department of Mathematical Sciences Faculty (www.utdallas.edu/nsm/math/faculty).

1. Exam 1/P
2. Exam 3/P: C, Part I
3. Exam 3/F: MFE
4. Exam 3/P: M, Part II
5. Exam 4/C, Part I
6. Exam 4/C, Part II
7. Exam 5/FAP
8. Exam 2/FM
9. VEE, Applied Statistical Methods
10. VEE, Corporate Finance
11. VEE, Economics
School of Natural Sciences and Mathematics

Department of Physics

Department Faculty

Cecil and Ida Green Chair in Physics: Roderick A. Heelis

Green Distinguished Chair in Academic Leadership: B. Hobson Wildenthal


Professor Emeritus: Walter Heikkila, Wolfgang A. Lindler, Myron B. Salamon, Brian A. Tinsley

Associate Professors: Yuri Gartstein, Mustapha Ishak-Toushaki, Lindsay King, David Mary, Anton V. Malko, Chuanwei Zhang

Assistant Professors: Lunjin Chen, Xingang Chen, Michael Kesden, Lloyd Lumata, Fabiano Rodrigues

Senior Lecturers: Paul MacAlevey, Beatrice Rasmussen

Affiliated Faculty: Yves Chabal, Yeongjae Cho, John P. Ferraris, Matthew Goeckner, Heather Hayenga, Christopher Hinkle, Julia W. P. Hsu, Wenchuang (Walter) Hu, Stephen D. Overzet, A. Dean Sherry, Mary Umrath, Duck-oo (D. J.) Yang

Objectives

The goal of the Graduate Program in Physics is to develop individual creativity and expertise in the fields of physics. In pursuit of this objective, study in the program is strongly focused on research. Students are encouraged to begin participating in ongoing research activities from the beginning of their graduate studies. The research experience culminates with the doctoral dissertation, the essential element of the PhD program that prepares students for careers in academia, government laboratories, or industry.

A Master of Science degree is offered to those seeking to acquire or maintain technical mastery of both fundamentals and current applications.

Admission Requirements

The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

The Graduate Physics Program seeks students who have a BS degree in Physics or closely related subjects from a university or college, and who have superior skills in quantitative and deductive analysis. Official scores from the GRE General Test (verbal and quantitative) and the GRE Subject Test in Physics are required. Decisions on admission are made on an individual basis. However, as a guide, a combined score on the verbal and quantitative parts of the GRE General Test of 308, with at least 155 on the quantitative part, is advisable based on past experience with student success in the program.
For graduate work it is assumed that the student has an undergraduate background that includes the following courses at the level indicated by texts referred to: mechanics at the level of Symon, Mechanics; electromagnetism at the level of Reitz and Milford, Foundations of Electromagnetic Theory; thermodynamics at the level of Kittel, Thermal Physics; quantum mechanics at the level of Griffiths, Introduction to Quantum Mechanics (chapters 1-4); some upper-division course(s) in modern physics, and atomic physics. Students who lack this foundation may be required to take one or more undergraduate courses to complete their preparation for graduate work.

Financial Support

A limited number of teaching assistantships (TAs) are awarded to those students displaying the most promise in teaching or research. Specific decisions regarding TA awards are made on an individual basis. Students who wish to be considered for financial support are encouraged to submit completed applications by February 1st for admission in the fall semester. Admission for the spring term is possible, but opportunities for financial support in such cases are extremely limited and not guaranteed. Teaching assistantship awardees are required to complete 12 graduate physics courses approved by the graduate advisor during the first 24 months in residence. Continuation of support is evaluated yearly and requires achievement of a minimum GPA of 3.0, and a satisfactory record in teaching or research assignments.

Financial support is preferentially provided to students in the PhD track.

Specializations

The central principle in the structure of the graduate program is that a student's progress and ultimate success is best served by early and varied research experiences coupled with individually tailored course sequences.

Current areas of research specialization in the physics program are: Atmospheric and Space Physics; Astrophysics/Cosmology/Relativity; Condensed Matter Physics/Materials Science; and High Energy Physics. Further details on the current research topics in these areas are provided below.

Astrophysics, Cosmology and Relativity

This research group studies fundamental problems in theoretical astrophysics, contemporary cosmology, and relativity. These research efforts typically involve analytical, numerical, and cosmological-data related projects. The group is instrumental in organizing the biennial Texas Symposia on Relativistic Astrophysics, beginning in Dallas in 1963 and recurring regularly all over the world since then. Current areas of research include: gravitational lensing (lenses) and its applications to cosmology; the acceleration of the expansion of the universe (cosmological constant, dark energy); fitting cosmological models to observational data (e.g. CMB, lensing, supernovae); dark matter; the structure of the big bang; the role of inflation; computer algebra systems applied to general relativity and cosmology; space-time junction conditions and wormholes; cosmological models of wider generality than the classical homogeneous models and their possible observational signatures. More specific information is available at: www.utdallas.edu/~mishak/relativitycosmology.html

Atmospheric and Space Physics

Research in Atmospheric and Space Physics encompasses both theory and experiment, with emphasis on aeronomy, ionospheric physics, planetary atmospheres, atmospheric electricity and its effects on weather and climate, and space instrumentation. Much of the research occurs in the William B. Hanson
Center for Space Sciences, which includes laboratory facilities for instrument design, fabrication, and testing. Faculty and students participate in ongoing satellite missions sponsored by NASA and DoD, and suborbital sounding rockets. Most students participate in analysis of large data sets from previous missions, and from ground-based optical and radar instruments at locations ranging from Greenland to South America. Particular areas of interest include large and small scale dynamics and electrodynamics, numerical modeling of the thermosphere and ionosphere, characteristics of the near earth plasma environment, the effects of solar variability on atmospheric electricity, cloud microphysics and tropospheric dynamics, plasma instabilities and irregularities, and development and testing of innovative space flight instrumentation. Computer facilities include a network of dedicated workstations and access to supercomputers. For further details see www.utdallas.edu/research/spacesciences.

High Energy Physics and Elementary Particles

The UT Dallas High Energy Physics Group collaborates on the Atlas experiment at the CERN Large Hadron Collider (LHC) and the BaBar experiment, at the PEP-II asymmetric b factory located at the Stanford Linear Accelerator Center (SLAC). Atlas will search for the Higgs boson, believed to be responsible for electroweak symmetry breaking, for new physics beyond the standard model such as supersymmetric partners to known particles, and for new hadrons. Atlas data-taking will begin in 2009. BaBar measures CP violation in the decays of bottom mesons and is exploring whether the origin of this CP violation lies within the Standard Model. BaBar data is fertile ground for precision and rare decays of bottom and charm particles, and tau leptons. The group explores both charmonia and a class of unexpected particles with charm-anticharm quark content with properties that are quite different from conventional charmonium. BaBar has completed data-taking and is analyzing its data. The group’s research is funded by the U.S. Department of Energy. The UT Dallas High Energy Physics group specializes in high performance computing, simulation production, and data analysis while contributing to the commissioning and operation of experiments. Additional information can be found at: www.utdallas.edu/~joe/hepweb/utdhep.html

Solid State/Condensed Matter Physics/Materials Science

Materials Science is at the interface of many disciplines and involves a collaborative approach with colleagues in chemistry, and electrical engineering. Our research facilities are distributed over the physics laboratories, the nanoTech Institute (nanotech.utdallas.edu) and Electrical Engineering Clean Room.

Research in Materials Science involves both experiment and theory with emphasis on the physical aspects of solid state materials, optical properties of solids, Raman scattering, physical properties of thin films, and carbon nanotubes. Various nanoscale and synthetic materials are being studied for their optical, electronic, magnetic and transport properties, as well as applications in photonics, spintronics and (opto)electronics. The materials of interest include nanostructures (quantum dots and wires, fullerenes and carbon nanotubes) and low-dimensional systems, photonic band gap crystals and left-handed electromagnetic meta-materials, organic and polymeric materials. Unconventional superconductivity and superconducting nanostructures are also under investigation.

The interaction of nanoscale materials, such as carbon nanotubes, with biological entities are being investigated for prospective biomedical and electronic applications. For example, chemically functionalized carbon nanotubes are being studied as building blocks in transistor and sensor applications.

Degree Requirements

The university's general degree requirements are discussed on the Graduate Policies and Procedures page
All candidates for graduate degrees in physics must satisfy general university degree requirements. Well-prepared students may demonstrate by examination adequate knowledge of the core and basic course material. In addition to the general university graduation requirements, graduation in physics requires achieving a grade of □ or better in each core course in the MS and PhD programs.

Master of Science in Physics

30 semester credit hours minimum

A minimum total of 30 graduate semester credit hours is required, including the core courses listed below.

Core Courses: 12 semester credit hours

- PHYS 5301 Mathematical Methods of Physics I
- PHYS 5311 Classical Mechanics
- PHYS 5320 Electromagnetism I
- PHYS 6300 Quantum Mechanics I

Elective courses: 18 semester credit hours

In addition to the core courses, 18 semester credit hours of additional graduate level physics or related field courses must be successfully completed by MS candidates in physics, with prior approval from the graduate advisor. Up to 6 semester credit hours of elective credit may be satisfied through approved industrial internships, supervised research, or the satisfactory completion of an MS thesis. Prior approval for these options must be obtained from the graduate advisor.

Doctor of Philosophy in Physics

75 semester credit hours minimum beyond the baccalaureate degree

Core Courses

A minimum of 24 semester credit hours in the graduate core sequence are required for the PhD degree, plus additional courses specified by the student's thesis committee chair. The required core courses must include:

- PHYS 5301 Mathematical Methods of Physics I
- PHYS 5302 Mathematical Methods of Physics II
- PHYS 5311 Classical Mechanics
- PHYS 5313 Statistical Physics
- PHYS 5320 Electromagnetism I
- PHYS 5322 Electromagnetism II
Students in space sciences must also take:

**PHY 6300** Quantum Mechanics I 
**PHY 6301** Quantum Mechanics II 

A candidate must also take a minimum of 3 elective courses, 1 from within his/her area of specialization and 2 selected from outside the student's specialty area. Additional courses may be required to satisfy the particular degree requirements and/or to ensure sufficient grounding in physical principles. The graduate advisor and the student's supervisory committee must approve course selections. A minimum of one year residency after admission to the doctoral program is required.

Students are required to take and pass a qualifying examination during their first year in the PhD program. The qualifying examination is normally given in January of the first year of graduate study. At the discretion of the Physics Qualifying Exam Committee, a student may pass the exam, fail the exam, or be offered a second attempt at the qualifying examination. A second attempt, if offered, will normally be given before the end of the summer semester of the first year of graduate study. A student taking the second attempt will either pass or fail the exam; under no circumstances will a third attempt be given. Students who fail the qualifying examination will be ineligible to continue enrollment in the physics PhD program after the completion of their first full year in residence.

After a student has completed the required coursework with a minimum grade of B in each core course and a minimum GPA of 3.0 for all courses, passed the qualifying examination, and decided upon his/her field of specialization, the student is required to identify a dissertation topic and form a Supervising Committee to guide the student's dissertation work. The student must submit a proposal that outlines the present state of knowledge of the field and presents the research program the student expects to accomplish for the dissertation. This proposal must be approved by the Supervising Committee and the department head. A seminar on the dissertation proposal must be presented, followed by an oral examination conducted by the faculty on the proposed area of research and related topics. The Supervising Committee shall determine by means of the exam and any ancillary information whether the student is adequately prepared and has the ability to conduct independent research. The approved dissertation proposal is then filed with the Dean of Graduate Studies. An approved dissertation proposal is normally expected no later than the end of the first semester of the student's third year.

A manuscript embodying a substantial portion of the dissertation research accomplished by the student must be submitted to a suitable professional refereed journal prior to the public seminar and dissertation defense. A public seminar, successful defense of the dissertation, and its acceptance by the supervising committee conclude the requirements for the PhD. In lieu of the traditional dissertation, and at the discretion of the supervising professor, a manuscript dissertation following the guidelines published by the Graduate Dean's Office may be substituted.

**Core Course listing for Doctor of Philosophy**

24 semester credit hours required, 27 semester credit hours for Space Science

**PHY 5311** Classical Mechanics 
**PHY 5313** Statistical Physics 
**PHY 5320** Electromagnetism I 
**PHY 5322** Electromagnetism II
**PHYS 5301** Mathematical Methods of Physics I

**PHYS 5302** Mathematical Methods of Physics II

**PHYS 6300** Quantum Mechanics I

**PHYS 6301** Quantum Mechanics II

**PHYS 6383** Plasma Science (required core course for Space Science students)
School of Natural Sciences and Mathematics

Department of Science and Mathematics Education

Preface
The department of Science and Mathematics Education offers two graduate degree programs: Science Education and Mathematics Education.

Degrees Offered

Master of Arts in Teaching/Science Education
36 semester credit hours minimum

Master of Arts in Teaching/Mathematics Education
36 semester credit hours minimum

Department Faculty

Professors Emeritus: Thomas Butts, Frederick Fifer, Cynthia Ledbetter, Lynn A. Melton

Associate Professors: Titu Andreescu, Homer Montgomery, Mary Urquhart

Graduate Advisor: Barbara A. Curry

Clinical Faculty: Catherine Donaldson, Floyd Dorsey, Billy Gammons, Pamela Kirkland, Amin Lalani, James York

Affiliated Faculty: John Burr, Gregg Dieckmann, Joseph Ferrara, Matthew Goekner, Pamela Gossin, John H. Hoffman, Joseph M. Izen, Susan E. Minkoff, Christine Salmon, Robert Stern, John Zweck

Objectives and Structure

The Master of Arts in Teaching (MAT) in Science Education Program and the MAT in Mathematics Program are designed to enhance the content knowledge and pedagogical content knowledge of science, technology, engineering, and mathematics (STEM) teachers. Both programs share a set of core courses that allow students to explore knowledge common to both disciplines. Students in Science Education or Mathematics Education can then collaborate to integrate science and mathematics education and to provide a better education for their students. Because many graduates of these MAT programs will rise to leadership positions such as department head or science/mathematics coordinator, the core courses provide
fundamental skills in cognition, education research, and assessment so that MAT graduates can evaluate educational strategies and thoughtfully advise their colleagues about them. The STEM Content courses provide additional depth in specific science and mathematics content areas. Students may elect to write and defend a research-based thesis.

Both programs are designed for individuals with significant ability in a science/mathematics discipline and a serious commitment to teaching. They provide forward-looking opportunities for professional development for both new and experienced teachers.

Departmental Activities and Facilities

The Science/Mathematics Education (SME) Department is a hub for many important activities. In addition to the graduate MAT in Science Education and MAT in Mathematics Education degree programs, faculty in the Science/Mathematics Education Department direct and carry out the UT Dallas implementation of UTeach, the nationally-acclaimed program for recruitment, preparation, and support of STEM teachers. The Science and Engineering Education Center (SEEC), directed by Nobel laureate Russell A. Hulse, is housed in facilities adjoining the SME area, and collaborations with SEEC continue to grow. Joint meetings with faculty from the School of Brain and Behavioral Sciences and the Center for BrainHealth lead to discussions of ways in which neuroscience and STEM education can grow symbiotically. The Center for Science Education and Research and the UT Dallas T-STEM Center provide partnership and professional development support for T-STEM Academies in Texas.

In fall 2010, UT Dallas opened its new Science Learning Center. It contains not only undergraduate teaching areas for the science students, but also a specially designed classroom area for SME that can be configured for interactive classes. SME instructors can model the best of educational practices and develop research projects to evaluate such strategies.

Scientific equipment supporting the various programs at the university can be available to students in the MAT program. Facilities in biology, chemistry, computer science, geosciences, mathematics, and physics are briefly described in the respective sections of the catalog.

Admission Requirements

The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2015/graduate/admission).

Science Education

Admission to the Graduate Program in Science Education requires, in addition to general university requirements, a significant background in science. A background of 24 semester credit hours in science at the undergraduate level or higher is preferred. An interview with an SME faculty member may also be required.

Mathematics Education

Admission to the Graduate Program in Mathematics Education requires, in addition to the general university requirements, an adequate background in mathematics. Applicants for the Upper Elementary/Middle School Mathematics and Applications track should have mastered pre-calculus and have experience with mathematical problem solving (e.g., MATH 3307 or equivalent). Applicants for the High
School Mathematics track should have at least one year of calculus, a course in linear algebra, and a junior-level course involving mathematical proof. An interview with an SME faculty member may also be required.

**Background Checks**

For both Science Education and Mathematics Education programs, opportunities may arise for students to work directly in local schools. Public schools and many private schools in the state of Texas require criminal background checks of all volunteers or individuals working within the schools regardless of the potential for direct contact with students.

**Degree Requirements**

The university's general degree requirements are discussed on the [Graduate Policies and Procedures](catalog.utdallas.edu/2015/graduate/policies/policy) page.

The MAT in Science Education and the MAT in Mathematics Education have a common set of four core courses. Both degrees require satisfactory completion of a minimum of 36 semester credit hours, and both degrees allow a student to select a Practitioner option (coursework only) or a Research option (coursework plus thesis).

An overall grade point average of 3.00 or better in the four core courses is required for graduation.

*Requirements common to the MAT in Science Education and to the MAT in Mathematics Education*

**Four (4) Core Courses:**

- SMED 5301 Science, Mathematics, and Society
- SMED 5302 Teaching and Learning of Science and Mathematics
- SMED 5303 Introduction to Research and Evaluation in Science and Mathematics Education
- SMED 5304 Research Methods in Science and Mathematics Education

**Six (6) STEM Content Courses** (Practitioner option) or four (4) STEM content courses plus at least six semester credit hours of SMED 6V98 (Research option). In both cases, four STEM content courses must be taken within a single STEM content area subject to the specific requirements for each program given below.

Elective Courses sufficient to bring the total semester credit hours to a minimum of 36 semester credit hours. Electives must be approved by the SME Graduate Studies Committee. Research option students must use one of their electives to take SCI 5340 Statistics for Science/Mathematics Education, which must be taken prior to enrolling in thesis semester credit hours.

Students may petition the Graduate Studies Committee for waiver of requirements or substitution of alternate means of meeting requirements. Students who have particularly strong STEM content backgrounds are encouraged to meet with the graduate advisor and develop an appropriate degree plan.
Thesis Option

Students who wish to pursue the thesis option must consult with potential faculty advisors and present to the Graduate Studies Committee the name of the proposed thesis advisor, the proposed thesis topic, and potential committee members. The Graduate Studies Committee, after consultation with the student and appropriate faculty members, may approve the project and committee or require changes. In order to fulfill the thesis requirement, the student must pass a minimum of six semester credit hours in thesis research, SMED 6V98, and submit an acceptable thesis. The thesis is directed by a supervising professor and must be approved by the student's thesis supervisory committee. In addition, the student must comply with the rules set by the Graduate Dean and successfully defend the thesis.

Requirements Specific to the MAT in Science Education

Students in the MAT in Science Education must pass four courses in one of the following Science Content areas: (1) Earth and Space Sciences, (2) Life Sciences, or (3) Physical Sciences. For Practitioner option students, the other two courses must be taken in a different STEM content area, which may include both Mathematics content areas described below.

Requirements Specific to the MAT in Mathematics Education

(1) Upper Elementary/Middle School Mathematics and Applications

Students must pass MTHE 5327 Functions and Modeling and five of the six courses in the Mathematics content area.

(2) High School Mathematics

Students must pass four courses in the Mathematics A content area and at least two courses in the Mathematics B content area. It is recommended that those in the Practitioner option use their elective courses to take two additional courses in the Mathematics B content area.

Requirements Associated with Community College Teaching

Many community colleges require that instructors have 18 semester credit hours of graduate coursework in the discipline to be taught. Students with an interest in teaching in community colleges should consult with the Graduate Studies Committee as soon as possible to identify the courses taken as part of the MAT in Science Education or the MAT in Mathematics Education that meet the expected requirements.

STEM Content Area Courses

Earth and Space Sciences

- SCI 5322 Basis of Evolution
- SCI 5337 Rockin Around Texas
- SCI 5326 Astronomy: Our Place in Space
SCI 5327 Comparative Planetology

Life Sciences

SCI 5322 Oasis of Evolution
SCI 5324 Ecology
SCI 5329 Bioethics
SCI 5330 Emerging Topics in Biology

Physical Sciences

SCI 5323 Laboratories and Demonstrations for Middle School Science Teachers
SCI 5331 Conceptual Physics I: Force and Motion
SCI 5332 Conceptual Physics II: Particles and Systems
SCI 5333 Conceptual Physics III: Atoms, Charges, and Interactions
SCI 5338 Conceptual Chemistry: The Atom and the Bridge from Physics to Biology

Mathematics A

MATH 5301 Elementary Analysis I
MATH 5302 Elementary Analysis II
MATH 5305 Higher Geometry for Teachers
MATH 5306 Non-Euclidean Geometry for Teachers
MATH 6311 Abstract Algebra I
STAT 5351 Probability and Statistics I
STAT 5352 Probability and Statistics II
CS 5333 Discrete Structures

Mathematics B

MTHE 5321 Problems Using Algebra
MTHE 5322 Problems Using Geometry
MTHE 5323 Problems Using Pre-calculus
MTHE 5324 Problems Using Discrete Mathematics
MTHE 5325 Problems Using Mathematical Modeling

Comment [DDC1]: SCI 5323 removed from the 2015 catalog

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Problems Using Statistics and Probability

Mathematics C

Functions and Modeling

The courses available to students to meet the STEM Content requirements include, but are not limited to, the courses listed in the STEM Content areas above. Use of courses outside these sets must be approved by the Graduate Studies Committee.

Online Course Work and Degree Options

Courses applicable to the MAT in Science Education and MAT in Mathematics Education may be offered online. However, the Science/Mathematics Education Department cannot guarantee that a student can carry out the entire degree program online. Students interested in online work should consult course schedules and contact the Graduate Studies Committee for current advice.

Undergraduate UTeach Dallas Students May Begin an MAT Program

Undergraduate students at UT Dallas who anticipate entering one of the Master of Arts in Teaching programs after obtaining a bachelor's degree are encouraged to begin taking MAT courses under UT Dallas' fast-track program for graduate credit option. The most appropriate courses for such students to take are

- SMED 5301 Science, Mathematics, and Society
- SMED 5302 Teaching and Learning of Science and Mathematics
- SMED 5303 Introduction to Research and Evaluation in Science and Mathematics

UTeach students are encouraged (1) to explore with their advisors the possibility that some graduate courses, such as SMED 5302 Teaching and Learning of Science and Mathematics and SCI 5342 Research Methods in STEM may satisfy a portion of the UTeach requirements and (2) to contact the graduate advisor to discuss a smooth transition to the Master of Arts in Teaching programs.

MAT and Other Post Baccalaureate Students May Pursue Secondary Mathematics or Science Certification Through UTeach Dallas

UTeach Dallas is an innovative teacher preparation program that allows students to pursue middle school and high school teacher certification within a science-technology-engineering-mathematics (STEM) degree program. While learning STEM subject matter, students also learn, through courses taught by some of Texas's most respected secondary school math and science teachers, how to teach. Upon completing the UTeach program, students are recommended for a middle school or high school teaching certificate. Both degree seeking and non-degree seeking students may apply. Interested students should contact the graduate advisor or the UTeach Dallas Advisor.

Teacher certification requirements are described in the following section of the undergraduate catalog:
School of Natural Sciences and Mathematics

Doctor of Philosophy in Geospatial Information Sciences

75 semester credit hours minimum beyond the baccalaureate degree

Faculty

Professors: Carlos V. Aiken, Brian Perry, Denis Dean, John F. Ferguson, Daniel A. Griffith, Fang Qiu, Hsing-Mean (Edwin) Sha, Robert Stern, Weili Wu, May Yuan

Associate Professors: Thomas H. Brikowski, Dohyeong Kim, David Lary, Michael Tiefelsdorf

Assistant Professors: Yongwan Chun, Anthony Cummings

Senior Lecturers: Bryan Chastain, Irina Vakulenko

Mission

The mission of the Doctor of Philosophy in Geographic Information Sciences program is to cultivate innovative researchers capable of advancing the frontiers of knowledge in the geospatial information sciences through improved theories, new technologies, innovative methodologies, sophisticated quantitative analyses, and integrative applications. Specifically, program graduates will:

- Demonstrate their knowledge of the fundamental theories and concepts underlying the geospatial sciences.
- Master the advanced methodologies and/or quantitative analyses used in at least one of three geospatial specialization areas: (a) computing and information management, (b) spatial analysis and modeling, or (c) remote sensing and satellite technologies.
- Produce innovative research that advances theory or methodology in the geospatial sciences.
- Participate at academic conferences, publish in peer-reviewed journals, and find employment in research departments of public and private organizations and in major academic institutions.
Objectives

This degree program is jointly offered by the School of Economic, Political and Policy Sciences, the School of Natural Sciences and Mathematics (specifically in the Department of Geosciences) and the Erik Jonsson School of Engineering and Computer Science, and is administered by the School of Economic, Political and Policy Sciences. This unique structure reflects geospatial information science's origins as the confluence of multiple disciplines including geography, computer science, engineering, geology, and various social, policy and applied sciences. It is anticipated that many students will enter the program with a bachelor's or master's degree (and/or work experience) in an application area (such as public administration, geology, or economics) or in a technical specialization (such as engineering, computer science, or statistics). These students may choose to pursue research projects that advance existing geospatial information sciences practices within that application area. Alternatively, students may opt to pursue research that expands the technological or theoretical base of all the geospatial information sciences.

Powerful technologies have emerged in recent years to collect, store, manage, analyze, and communicate information regarding the features of the Earth's surface and to combine these with other types of environmental, social, and economic information. These technologies, which include geographic information systems (GIS), the global positioning system (GPS), and remote sensing, are used in many ways, including the production of digital maps in vehicles, the management and maintenance of city infrastructure, agriculture and forestry, the policing of communities, and the conduct of modern warfare. The PhD in Geospatial Information Sciences aims to develop individuals capable of advancing this field by developing new knowledge or capabilities relevant to it.

Facilities

Students have access to state-of-the-art GIS computing facilities housed in the School of Economic, Political and Policy Sciences and at the ASA Center for Excellence in Remote Sensing in the Department of Geosciences. The university’s extensive instructional computing facilities, including those in the Erik Jonsson School of Engineering and Computer Science, are also available. Facilities are open extended hours including evenings and weekends. Enrollment in hands-on courses is controlled to ensure that a computer workstation is available for every student. All major industry-standard GIS and remote sensing software is available. The university is a member of the University Consortium for Geographic Information Science (UCGIS).

Admission Requirements

The university's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2014/graduate/admission).

The PhD program in Geospatial Information Sciences seeks applications from students with a baccalaureate, Master of Arts, Master of Science, or professional master's level degree in any field relevant to geospatial information science including, but not limited to, computer science, economics, engineering, geography, geology, management information systems, marketing, natural resource management, public affairs and public administration, statistics, and urban and regional planning.

Applicants will be judged and evaluated by the existing admission standards as set forth by the University in its Graduate Catalog and by the standards set forth here by the Geospatial Information Sciences program. A bachelor's degree from an accredited institution of higher education or its equivalent and fluency in written and spoken English are required. A grade average of at least 3.25 in undergraduate and graduate course
work, and a combined verbal and quantitative score of 300 on the G: E are desirable. An analytical writing score of at least 4.5 in the G: E is considered desirable.

Applicants must submit transcripts from all higher education institutions attended, three letters of recommendation, and an essay outlining their background, education, and academic objectives as they specifically relate to a PhD in Geospatial Information Sciences.

Prerequisites

The following prerequisites/corequisites will also be required for admission to the PhD program: (i) college mathematics through calculus, (ii) competence in at least one modern programming language equivalent to GISC 6317 GIS Programming Fundamentals, and (iii) at least one course in inferential statistics through to regression analysis equivalent to GISC 6301 GIS Data Analysis Fundamentals, EPPS 7313 Descriptive and Inferential Statistics, or GE:: S 5306 Data Analysis for Geoscientists. Graduate courses taken at UT Dallas to meet these prerequisites may be counted as electives toward the 75 semester credit hours required of students entering the PhD program directly from a B:A or B:S degree, but they shall not be considered substitutes for any other specified course.

Advising

Because of the cross-disciplinary nature of this doctoral program, to ensure adequate preparation and appropriate course sequencing, every doctoral student is required to consult with the student’s designated advisor and/or the GIS Doctoral Program Director prior to registration in every semester. Students generally will not have a faculty advisor when they first enter the PhD program, but every student is required to select (with consent of the potential advisor) an advisor from the advising faculty by the end of his/her first academic year.

Degree Requirements

The university's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2014/graduate/policies/policy).

To receive the PhD in Geospatial Information Sciences, students must complete the Geospatial Science Core (15 semester credit hours) to achieve a mastery of appropriate Geospatial Information Science technologies and theory, have Prescribed Specialization Electives (15 semester credit hours), have a Specific Application area or Technical field (12 semester credit hours), evidence research skills through successful completion and defense of a PhD dissertation, and take related electives as necessary for a total of 75 semester credit hours. A maximum of 6 semester credit hours can be taken at the 5000 level and the rest of them should be at the 6000 level or above. In addition, students must satisfy a set of exams and qualifiers. Other courses may be substituted for those listed below with the written permission in advance of the Director of the GIS Doctoral program.

Geospatial Science Core: 15 semester credit hours

Students must earn a minimum grade point average (GPA) of 3.0 across the following five courses:

- GISC 6381 (GE:: S 6381) Geographic Information Systems Fundamentals
- GISC 6325 (GE:: S 5325) Remote Sensing Fundamentals
Prescribed Specialization Electives: 15 semester credit hours

Students may select any five courses from the following:

I. Geospatial Computing and Information Management
   CS 6359 Object-Oriented Analysis and Design
   CS 6360 Database Design
   CS 6364 Artificial Intelligence
   CS 6366 Computer Graphics
   CS 6375 Machine Learning
   CS 6384 Computer Vision
   GISC 6317 GIS Programming Fundamentals
   GISC 6388 Advanced GIS Programming
   GISC 7363 Internet Mapping and Information Processing
   MIS 6320 Database Foundations
   MIS 6324 Business Intelligence Software and Techniques
   MIS 6360 Agile Project Management
   MIS 6326 Data Management

II. Spatial Analysis and Modeling
   ECON 6309 Econometrics I
   ECON 7309 Econometrics II
   EPPS 7318 Structural Equation and Multilevel (Hierarchical) Modeling
   EPPS 7370 Time Series Analysis
   EC 6316 Spatial Econometrics
   GISC 7364 Demographic and Epidemiological Analysis and Modeling
   GE: S 5306 Data Analysis for Geoscientists
   GISC 6311 Statistics for Geospatial Science
   GISC 6331 (CRIM 6322) GIS Applications in Criminology
   GISC 6334 (PPPE 6334) Workshop in Environmental and Health GIS/Policy
III. Remote Sensing and Satellite Technologies

- **GISC 5322 (GE: S 5322)** GPS (Global Positioning System) Surveying Techniques
- **GISC 5324 (GE: S 5324)** 3D Data Capture and Ground Lidar
- **GISC 5330 (GE: S 5330)** Geospatial Applications in Earth Science
- **GISC 5395** Satellite Geophysics and Applications
- **GISC 7365 (GE: S 5326)** Advanced Remote Sensing
- **GISC 7366 (GE: S 5329)** Applied Remote Sensing
- **EESC 6360** Digital Signal Processing I
- **EESC 6363** Digital Image Processing

IV. Customized Geospatial Specialization

Identified by the student with approval in advance by the Director of the GIS Doctoral Program.

**Application Area or Technical Field (12 semester credit hours)**

Twelve semester credit hours of specialized course work in an **application area or technical field** relevant to GIScience. Normally, these will derive from the student's master's degree. These semester credit hours may be transferred from another institution, or taken at UT Dallas in an existing master's program area and may be applied toward a master's degree in that area.

*Application area* examples: planning, public affairs, criminal justice, health and epidemiology, geoscience, forestry, hydrology, marketing, real estate, economics, civil engineering, etc.

*Technical field* examples: statistics, computer science, software engineering, management information systems, image analysis, operations research/location science, instrumentation.

**Research and Dissertation (variable semester credit hours)**

All students must complete the following class as part of the research and dissertation requirement:

- **GISC 7387** GIS Research Design

In addition, students must complete sufficient additional research and dissertation semester credit hours to bring the total number of semester credit hours they have earned within the UT Dallas doctoral program (or transferred into the UT Dallas doctoral program) to 75 semester credit hours, the minimum required to earn
a doctoral degree. Additional research and dissertation semester credit hours above and beyond those required to reach the 75 semester credit hours minimum may be required at the discretion of the student's PhD advisor. Additional research and dissertation semester credit hours can be earned through any course from the following list:

- GISC 6387 Geospatial Sciences Workshop
- GISC 6389 Geospatial Information Sciences Master's Research
- EPPS 6342 Research Design II
- GISC 8320 Geospatial Sciences Seminar
- GISC 8V29 Research in GIS
- GISC 8V99 or CS 8V99 Dissertation

Other Related Electives (0 to 24 semester credit hours)

Students may choose up to 24 semester credit hours in related electives (from CS, GEOS, GISC, etc.) with consent of their advisor or the GIS Doctoral Program Director.

Exams and Qualifiers

Qualifying Examination

The GISC PhD Qualifier Examination is administered in May of a full-time doctoral student's first year, following the completion of the first academic year (i.e. fall and spring semester) by the student. This exam comprises of four parts, each based upon one of the following core courses:

- GISC 6325 Remote Sensing Fundamentals
- GISC 6384 Advanced Geographic Information Systems
- GISC 6385 GIS Theories, Models and Issues
- GISC 7310 Advanced GIS Data Analysis

A student must pass three of the four parts to pass the exam. If a student fails his/her exam, s/he may retake only the parts they failed in the subsequent August. If s/he does not pass a cumulative total of three parts after the August exam date, then s/he fails the Qualifier Examination, and is withdrawn from the GIS doctoral program.

Defense of Proposal

After completing the GISC 7387 GIS Research Design class, doctoral students must successfully present and defend a dissertation proposal through an oral examination, according to uniform guidelines established by the GIS program.
Grade Point Qualifier

Doctoral students must have GPAs of at least 3.25, and preferably 3.5, in courses taken at UT Dallas at the
time they register for GISC 7387 GIS Research Design, or they must petition the GIS faculty for an
exemption for extenuating circumstances beyond the student's control.

Defense of Dissertation

A dissertation must be prepared and defended successfully following the procedures established by the
Dean of Graduate Studies.

Note: Individuals experienced with GIS may have the introductory course (GISC 6381) waived at the
discretion of the Geospatial Information Sciences Program Head, but must take an additional course from
the prescribed specialization elective courses listed above.

1. Individuals experienced with GIS may have the introductory course (GISC 6381) waived at the discretion of the
Geospatial Information Sciences Program Head, but must take an additional course from the prescribed
specialization elective courses listed in this program.
Graduate Instruction in Education Program
2015-16 Graduate Catalog
Teacher Education Certification

Graduate Instruction in Education

Faculty
Professors: George W. Fair
Associate Professors: Titu Andreescu, Homer Montgomery, Mary L. Urquhart
Assistant Clinical Professors: Katherine (Katie) Donaldson, Floyd Dorsey, Billy Gammons, Pamela Kirkland, Amin Lalani, James (Jim) McConnell, Laurie Pollock, Megan (Kate) York

Post-Baccalaureate Programs for Teacher Certification

Teacher Development Center: Persons who already have baccalaureate degrees may seek teacher certification in all fields. They should consult with an advisor in the Teacher Development Center to develop a certification plan after they have been admitted to the university through the School of Interdisciplinary Studies as a post-baccalaureate student. Post-baccalaureate students must meet the 24 semester credit hours requirement in the appropriate teaching field. A certification plan will be developed based on an evaluation of the student's transcript. Post-baccalaureate students must demonstrate computer literacy, effective public speaking, and complete 12 semester credit hours of English. All students must fulfill the UT Dallas requirements for student teaching or supervised internship.

See the Teacher Development Center website at http://www.utdallas.edu/teach for the most current information and course requirements.

UTeach Dallas: Persons who already have baccalaureate degrees may seek teacher certification in secondary science and/or mathematics through UTeach Dallas in the School of Natural Sciences and Mathematics. Post-baccalaureate students must meet the 24 semester credit hours requirement in the appropriate STEM teaching field. A certification plan will be developed based on an evaluation of the student's transcript. Post-baccalaureate students must demonstrate computer literacy and effective public speaking. All students must fulfill the UT Dallas requirements for student teaching or supervised internship.

See the UTeach Dallas website at http://www.utdallas.edu/uteach for the most current information and course requirements.

Graduate Degrees

School of Natural Sciences and Mathematics: Programs leading to a Master of Arts in Teaching in Mathematics Education or a Master of Arts in Teaching in Science Education are offered through the Department of Science/Mathematics Education in the School of Natural Sciences and Mathematics. Master of Arts in Teaching degrees may be sought concurrently with UTeach Dallas Certification. For additional information, see http://www.utdallas.edu/scimathed.
Dr. Edward Harpham requested the two titles be revised to bring them in alignment with the Memorandum of Understanding between the Archer Center and UT Dallas / EPPS. These existing courses have been updated accordingly.

Approved April 2, 2015.
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<td><strong>PA 8330 Federal Policymaking: A View from Inside the Federal Government</strong> (3 semester credit hours) This course competitively selects a group of UT System graduate students to spend an 11-week summer program in Washington, D.C. The course is designed to complement students' experiences at their accompanying six semester credit hour internship placement. The course provides a context for and a familiarity with the dynamics that influence all activity in the government, including meeting officials from the White House, House and Senate, nonprofits, lobbying firms, think tanks, the media, and others. Students return with a participant's understanding of the workings of the remarkable machinery of the federal government. Pass/Fail only. Corequisite: PA 8630 and instructor consent required. (3-0) Y</td>
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**request notes**

Changed grading basis to Pass/Fail only due to 8000 level; ok'd by Vy Trang / program head, 10/13/14. Course title revision requested by Dr. Harpham 4-1-15; he reported that Dean Cunningham/Graduate Council approved the revision due to Memorandum of Understanding between Archer Center and UT Dallas / EPPS, 4-2-15.

**peoplesoft diff: 014577 2015-08-23 mxv062000**

PA 8330 **Archer Center Summer Graduate Seminar Federal Policymaking: A View from Inside the Federal Government** (3 semester credit hours) This course competitively selects a group of UT System graduate students to spend an 11-week summer program in Washington, D.C. The course is designed to complement students' experiences at their accompanying six semester credit hour internship placement. The course provides a context for and a familiarity with the dynamics that influence all activity in the government, including meeting officials from the White House, House and Senate, nonprofits, lobbying firms, think tanks, the media, and others. Students return with a participant's understanding of the workings of the remarkable machinery of the federal government. Pass/Fail only. Corequisite: PA 8630 and instructor consent required. (3-0) Y
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SUBMISSION OF CANDIDATES FOR GRADUATION – Spring 2015

UNDERGRADUATE

These students have applied for graduation and have been reviewed by the Office of Records. The Office of Records declared that all of these students will be eligible for graduation upon the completion of the current semester's work at the necessary levels. I request, therefore, that the Academic Senate certify the students to graduate upon receipt of final grades, and notification of completion of other requirements, provided that the grades are consistent with the standards for graduation prescribed by this University. I also request that the Academic Senate certify those students designated as eligible to graduate with honors upon completion of coursework and requirements consistent with the standards at the levels offered by this University.

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SUBMISSION OF CANDIDATES FOR GRADUATION –Spring 2015

Masters

These students have applied for graduation and have been reviewed by the Office of Records. The Office of Records declared that all of these students will be eligible for graduation upon the completion of the current semester’s work at the necessary levels. I request, therefore, that the Academic Senate certify the students to graduate upon receipt of final grades, and notification of completion of other requirements, provided that the grades are consistent with the standards for graduation prescribed by this University. I also request that the Academic Senate certify those students designated as eligible to graduate with honors upon completion of coursework and requirements consistent with the standards at the levels offered by this University.

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SUBMISSION OF CANDIDATES FOR GRADUATION – Spring 2015

GRADUATE

These students have applied for graduate degrees and have been reviewed by the Graduate Dean. The Graduate Dean certifies that all of these students will be eligible for the degrees indicated upon satisfactory completion of the current semester’s work. I request, therefore, that the Academic Senate certify these students to receive the degrees as indicated upon receipt of final grades and notification of completion of other requirements, provided that the grades received are consistent with the standards for credit prescribed by this University.

PhD Candidates

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Committee on the Core Curriculum - UTDPP1018
Policy Charge

Core Curriculum
Policy Statement

The Committee on the Core Curriculum is a Standing, Concurrent Committee of the Academic Senate regarding University-wide requirements for students seeking entrance to a baccalaureate degree from The University of Texas at Dallas.

The Committee is charged to evaluate and make recommendations to the Academic Senate regarding the University-wide General Education curriculum and its implications in terms of academic requirements for undergraduate admission and graduation, including transfer admission requirements. The Committee reviews and approves the suitability of particular U.T. Dallas courses that are submitted as designed to satisfy the University's core curriculum requirements. It may also review lower-division courses offered by other Texas public colleges and universities that students submit to substitute for U.T. Dallas core courses. The Committee also monitors changes in state law and rules of the Texas Higher Education Coordinating Board to ensure that U.T. Dallas requirements are in compliance with statewide requirements for core curriculum.

The Committee on the Core Curriculum shall act as the originator and developer of proposals regarding the core curriculum, just as the Faculty of the various Programs and Schools act regarding their majors' curricula and prerequisites. In so doing, the Committee on the Core Curriculum shall seek advice from all interested parties in the University, and call timely hearings of the faculty concerned with the core curriculum.

By November 1, the Chair of the Committee will provide the Speaker of the Faculty with a copy of the agenda established by the Committee for its work during the academic year.

Annually, but no later than August 31, the Chair of the Committee will provide the Speaker of the Faculty with a written report for the Academic Senate of the Committee's activities for the prior academic year.

The Committee is composed of seven voting members appointed from the membership of the General Faculty (as defined in Title III, Chapter 21, Section I.B.1. of The University of Texas at Dallas Handbook of Operating Procedures UTDPP 1088). Committee membership will be distributed across all seven schools. The Chair of the Committee on Educational Policy shall serve ex officio as one of the voting members. The Dean of Undergraduate Education, the University Registrar and Director of Academic Records, and the Director of Undergraduate Advising serve as non-voting, ex officio members. Four non-voting members are degree-seeking undergraduates including one lower-division student and one upper-division transfer student. The Chair of the Committee serves ex officio, with vote, on the Committee on Educational Policy. The Dean of Undergraduate Education serves as the Responsible University Official.

Commented [MC1]: Should this be raised to 8 to reflect the number of schools? Or is there an alternate wording?

Commented [MC2]: Seven was removed to reflect recommended working from March Senate meeting.
Unless specified otherwise in this charge, Committee members are appointed to two-year terms, and
the Chair and Vice Chair are appointed annually. The terms for appointed members shall be
staggered so that no more than one-half of the terms expire in any one year. Members may be
reappointed by the President for additional terms upon nomination of the Academic Council. If for
any reason a Committee member resigns, the President, upon nomination of the Academic Council,
shall appoint another individual to serve the remainder of the unexpired term.

Policy History

Issued: April 4, 1995
Revised: September 1, 1998
Revised: June 3, 1999
Editorial Amendments: September 1, 2000
Revised: October 25, 2001
Editorial Amendments: November 22, 2002
Revised: October 19, 2004
Editorial Amendments: June 7, 2006

Policy Links

Permalink for this policy: http://policy.utdallas.edu/utdpp1018
Link to PDF version: http://policy.utdallas.edu/pdf/utdpp1018
Link to printable version: http://policy.utdallas.edu/print/utdpp1018
Committee on Educational Policy - UTDPP1023

Policy Charge

Educational Policy (CEP)

Policy Statement

The Committee on Educational Policy is a standing, concurrent committee of the Academic Senate of The University of Texas at Dallas.

The Committee is charged with reviewing the policies and procedures of all educational programs of the University, with respect to their quality, feasibility, necessity, and consistency with established academic policies, standards, and goals. The purview of the Committee specifically includes, but is not limited to 1) all proposals for the assignment of university credit to new courses, 2) all proposals for new programs, 3) all catalog materials, and 4) other academic policy issues referred to it by the Academic Council and/or Senate. The Committee shall publish, with the approval of the Academic Senate, calendars for submission to it of proposals for new programs, catalog copy for approval, and such other materials as it considers appropriate.

Catalog copy and proposals for new programs shall be submitted directly by appropriate administrative officers to the Committee for review. Upon completion of its deliberations, the Committee will forward the material with their results to the Academic Senate through the Academic Council. Reviews of policy suggestions by other committees and responses to requests for opinions by other agencies of the University will be returned directly to the concerned body if the Committee finds that it can formulate its advice within the framework of existing Senate policies and established precedents. New policies deemed appropriate by the Committee will be submitted as recommendations to the Academic Senate, through the Academic Council.

By November 1, the Chair of the Committee will provide the Speaker of the Faculty with a copy of the agenda established by the Committee for its work during the academic year.

Annually, but no later than August 31, the Chair of the Committee provides the Speaker of the Faculty with a written report for the Academic Senate of the Committee’s activities for the prior academic year.

Insofar as possible, the fourteen members of the Committee shall include two representatives from each School, but with one representative from the School of Interdisciplinary Studies, appointed from the membership of the General Faculty (as defined in Title III, Chapter 21, Section I.B.1. of The University of Texas at Dallas Handbook of Operating Procedures UTDPP 1088). The Chair of the Committee on Core Curriculum shall serve ex officio as one of the voting members. There shall be four non-voting ex officio members: the Dean of Graduate Studies, the Dean of Undergraduate Education, the Assistant Provost, and the University Registrar and Director of Academic Records. The President of the Student Body shall submit to the President a slate of three graduate and three undergraduate students from whom the President selects one graduate student and one undergraduate student to be non-voting members of the committee.
The Dean of Graduate Studies and the Dean of Undergraduate Education serve as Responsible University Officials charged with implementing the policies recommended by the committee and approved by administration.

Unless specified otherwise in this charge, Committee members are appointed to two-year terms, and the Chair and Vice Chair are appointed annually. The terms for appointed members shall be staggered so that no more than one-half of the terms expire in any one year. Members may be reappointed by the President for additional terms upon nomination of the Academic Council. If for any reason a Committee member resigns, the President, upon nomination of the Academic Council, shall appoint another individual to serve the remainder of the unexpired term.

Policy History

- Revised: November 12, 1979
- Revised: May 13, 1985
- Revised: November 1, 1990
- Revised: February 1, 1991
- Revised: October 15, 1993
- Revised: April 4, 1995
- Revised: June 30, 1997
- Revised: September 1, 1998
- Editorial Amendments: September 1, 2000
- Revised: October 25, 2001
- Editorial Amendments: November 22, 2002
- Editorial Amendments: April 18, 2006

Policy Links

- Permalink for this policy: http://policy.utdallas.edu/utdpp1023
- Link to PDF version: http://policy.utdallas.edu/pdf/utdpp1023
- Link to printable version: http://policy.utdallas.edu/print/utdpp1023
Committee on Effective Teaching - UTDPP1024

Policy Charge

Effective Teaching

Policy Statement

The Committee on Effective Teaching is a Concurrent Committee of the Academic Senate of The University of Texas at Dallas. The Committee oversees and encourages the development of a wide range of tools and facilities to promote excellence in teaching across all disciplines and levels within the University. It will, on a continuing basis, refine the definition and measurement of excellence in teaching, and advise the University and Academic Senate of needs for and availability of new technology and training for teachers.

The competitions for all University level teaching awards will be managed by the Committee. It will forward its recommendations for award winners to the President.

The Committee will receive annual reports from each individual School Committee on Effective Teaching and will facilitate and evaluate the work of the School committees. The Committee will forward the individual School reports and its summary evaluation report annually to the Executive Vice President and Provost (Provost).

The Committee will create and refine procedures for the training of and monitoring of the teaching effectiveness of graduate teaching assistants.

The Committee will receive complaints about and requests for improvements in the teaching environments on campus and pass on recommendations for improvements to the University administration.

The Committee will encourage and review the funding of projects in the use of new technology and new teaching methods, both on campus and by transmission to remote sites. It will also advise the University administration and Academic Senate on ways to ease the transition to "the high tech classroom."

As part of the general requirement to improve awareness of new ideas and new technologies, the Committee will occasionally invite renowned speakers to give seminars on campus.

By November 1, the Chair of the Committee will provide the Speaker of the Faculty with a copy of the agenda established by the Committee for its work during the academic year.

Annually, but no later than August 31, the Chair of the Committee will provide the Speaker of the Faculty with a written report for the Academic Senate of the Committee’s activities for the prior academic year.

The Committee is composed of nine-eleven voting members and shall include six-one faculty members (one from each school) appointed from the membership of the General Faculty (as
defined in Title III, Chapter 21, Section 1.B.1. of The University of Texas at Dallas Handbook of Operating Procedures UTDPP1088), two students, and one technical expert or librarian. The Dean of Undergraduate Education and such Associate Deans for Undergraduate Education of the seven schools who have not been appointed as voting members serve as non-voting members, ex officio. The Provost serves as the Responsible University Official.

Unless specified otherwise in this charge, Committee members are appointed to two-year terms, and the Chair and Vice Chair are appointed annually. The terms for appointed members shall be staggered so that no more than one-half of the terms expire in any one year. Members may be reappointed by the President for additional terms upon nomination of the Academic Council. If for any reason a Committee member resigns, the President, upon nomination of the Academic Council, shall appoint another individual to serve the remainder of the unexpired term.

Policy History

- Issued: May 1, 1994
- Revised: September 1, 1998
- Editorial Amendments: September 1, 2000
- Revised: December 15, 2000
- Editorial Amendments: November 22, 2002
- Editorial Amendments: June 29, 2006
- Revised: November 3, 2008

Policy Links

- Permalink for this policy: http://policy.utdallas.edu/utdpp1024
- Link to PDF version: http://policy.utdallas.edu/pdf/utdpp1024
- Link to printable version: http://policy.utdallas.edu/print/utdpp1024
Committee on Learning Management Systems - UTDPP1028

Policy Charge

Learning Management Systems

Policy Statement

The Committee on Learning Management Systems is a Concurrent Committee of the Academic Senate charged to analyze, support, and provide advice and recommendations regarding the educational software package employed for instructional purposes. The Committee will advise the Responsible University Official on all aspects of the use and operation of such software and, if necessary, the selection of any successor software. It will also assist in long term planning and in designing and implementing programs for faculty instruction in the use of such software.

The Committee will also advise the President through the Academic Senate on strategy and policy regarding university software to support instruction. The Committee will communicate with the Committee on Distance Learning and, with them, will advise the Executive Vice President and Provost on academic and faculty issues that pertain to the maintenance, use, and improvement of this software.

By November 1, the Chair of the Committee will provide the Speaker of the Faculty with a copy of the agenda established by the Committee for its work during the academic year.

Annually, but no later than August 31, the Chair of the Committee will provide the Speaker of the Faculty with a written report for the Academic Senate of the Committee’s activities for the prior academic year.

The Committee is composed of six seven eight members appointed from the membership of the General Faculty, as defined in Title III, Chapter 21, Section 1.B.1 of The University of Texas at Dallas Handbook of Operating Procedures (UTDPP1088), pursuant to the applicable procedures outlined in Title III UTDPP 1088, supra. The criteria for appointment shall be that they will be faculty who use WebCT and will represent a broad spectrum of disciplinary content and levels of instruction. Ideally, one member would be from each of six of the seven schools in the University. Up to twenty additional members, ex-officio, may be appointed upon nomination of the Responsible University Official from the offices of Educational Enhancement, Information Resources, the Registrar, Audit and Compliance, and the instructional designers in the School of Management. The Associate Provost for Educational Enhancement serves as the Responsible University Official.

The terms for appointed faculty members shall be staggered so that no more than one-half of the terms expire in any one year. Of the initial six Committee members appointed from the membership of the General Faculty, three shall be appointed to one year terms and three shall be appointed for two year terms. Thereafter, unless specified otherwise in this charge, Committee members are appointed to two-year terms, and the Chair and Vice Chair are appointed annually. Members may be reappointed by the President for additional terms upon nomination of the Academic Council. If for
any reason a Committee member resigns, the President, upon nomination of the Academic Council, shall appoint another individual to serve the remainder of the unexpired term.

Policy Links

- Permalink for this policy: http://policy.utdallas.edu/utdpp1028
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- Link to printable version: http://policy.utdallas.edu/print/utdpp1028
Committee on Student Scholarships - UTDPP1038

Policy Charge

Student Scholarships

Policy Statement

The Committee on Student Scholarships is a standing, concurrent committee of the Academic Senate of The University of Texas at Dallas.

The Committee reviews and makes recommendations concerning all University policies and procedures in regard to student scholarships. The Committee also serves as the selection committee for all scholarships that require a local selection committee not otherwise specified in the conditions of the program or bequest establishing the scholarship. In addition to any specific criteria governing awards of competitive scholarships to students, such as major field of study, the Committee, after giving primary consideration to the applicant’s scores on standardized tests and scholastic records, both as regards the type and nature of courses taken and the grades achieved in specific courses, may consider and give positive weight to such factors as the following in designating recipients:

- achievements in work experiences
- community service
- extracurricular activities; leadership
- surmounting obstacles to the further pursuit of higher education
- socioeconomic background
- educational level
- status as a first generation college student

The Dean of Undergraduate Education shall submit an annual report on the University’s Academic Excellence Scholarship Program to the Committee for review. Committee recommendations for changes and enhancements to the program are forwarded to the Executive Vice President and Provost.

By November 1, the Chair of the Committee will provide the Speaker of the Faculty with a copy of the agenda established by the Committee for its work during the academic year.

Annually, but no later than August 31, the Chair of the Committee provides the Speaker of the Faculty with a written report for the Academic Senate of the Committee’s activities for the prior academic year.

The Committee is composed of seven-eight appointed members selected from among the Associate Deans for Undergraduate Education or heads of graduate programs of the seven schools. In addition, the Dean of Undergraduate Education and the Dean of Graduate Studies serve as voting members, ex officio. The Director of the Office of Financial Aid, the Director of Endowment Services and Compliance, and the Director of the Office of International Education serve as non-voting members, ex officio. The Associate Provost responsible for student affairs serves as the Responsible University Official.
Unless specified otherwise in this charge, Committee members are appointed to two-year terms, and the Chair and Vice Chair are appointed annually. The terms for appointed members shall be staggered so that no more than one-half of the terms expire in any one year. Members may be reappointed by the President for additional terms upon nomination of the Academic Council. If for any reason a Committee member resigns, the President, upon nomination of the Academic Council, shall appoint another individual to serve the remainder of the unexpired term.

Policy History

- Issued: September 4, 1978
- Revised: October 30, 1978
- Revised: November 12, 1979
- Revised: March 1, 1980
- Revised: May 1, 1980
- Revised: June 30, 1983
- Revised: September 1, 1984
- Revised: May 13, 1985
- Revised: September 1, 1988
- Revised: November 1, 1990
- Revised: April 4, 1995
- Revised: September 1, 1998
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- Revised: May 16, 2006
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Policy Links

- Permalink for this policy: http://policy.utdallas.edu/utdpp1038
- Link to PDF version: http://policy.utdallas.edu/pdf/utdpp1038
- Link to printable version: http://policy.utdallas.edu/print/utdpp1038
Policy Charge

Library Committee

Policy Statement

The Library Committee is a standing, concurrent committee of the Academic Senate of The University of Texas at Dallas.

The Committee is charged to:

1. review all policies and procedures of the Library and recommend those policies and procedures that will yield the greatest overall benefit to the educational programs of the University,
2. assist and promote faculty and student participation in the selection of library resources,
3. periodically evaluate the library holdings and services and make recommendations for their improvement, and
4. act as an intermediary where needed between library users, library staff, and the administration.

The Committee will receive regular reports on all matters of major library policy, including proposed budgetary allocations, from the Dean of Libraries, and will return its advice on routine matters to the Dean. Recommendations for general university policies arising from its considerations will be forwarded to the Academic Council or to the Academic Senate through the Academic Council.

By November 1, the Chair of the Committee will provide the Speaker of the Faculty with a copy of the agenda established by the Committee for its work during the academic year.

Annually, but no later than August 31, the Chair of the Committee provides the Speaker of the Faculty with a written report for the Academic Senate of the Committee's activities for the prior academic year.

The Committee is composed of sixteen-eleven voting members including one undergraduate and one graduate student. Seven-Eight members, one representing each School, shall be appointed from the membership of the General Faculty (as defined in Title III, Chapter 21, Section L.B.1. of The University of Texas at Dallas Handbook of Operating Procedures UTD PP 1088). Seven-Eight members, one representing each School's library acquisition committee, will be nominated by the respective School Dean. The Dean of Libraries and one member of the general administration shall serve as non-voting, ex officio members. The committee may add such additional non-voting members as will assist it in assuring that the library has adequate and continuous communication with all components of the University that depend on it. The Dean of Libraries serves as the Responsible University Official.

Unless specified otherwise in this charge, Committee members are appointed to two-year terms, and the Chair and Vice Chair are appointed annually. The terms for appointed members shall be
staggered so that no more than one-half of the terms expire in any one year. Members may be reappointed by the President for additional terms upon nomination of the Academic Council. If for any reason a Committee member resigns, the President, upon nomination of the Academic Council, shall appoint another individual to serve the remainder of the unexpired term.

Policy History

- Issued: September 4, 1978
- Revised: November 12, 1979
- Revised: January 8, 1981
- Revised: June 30, 1983
- Revised: November 1, 1990
- Revised: October 15, 1993
- Revised: September 1, 1998
- Editorial Amendments: September 1, 2000
- Revised: October 25, 2001
- Revised: October 29, 2003
- Editorial Amendments: April 6, 2006

Policy Links

- Permalink for this policy: http://policy.utdallas.edu/utdpp1076
- Link to PDF version: http://policy.utdallas.edu/pdf/utdpp1076
- Link to printable version: http://policy.utdallas.edu/print/utdpp1076
Policy Statement

Title and Purpose

The Senate Advisory Committee on the University Budget is a concurrent committee reporting to the Senate and the President. The purpose of the committee is to advise the Senate and President on the academic implications of the university budget, and to suggest policies on budgetary matters that bear on faculty morale, retention, and productivity, and on the quality and productivity of U T Dallas academic programs.

Membership

The committee shall have nine ten voting members. One voting member shall be appointed from the faculty of each School and two voting members shall be chosen from the faculty at large for special expertise or interest in institutional budgeting. Members shall serve staggered three year terms, except that in the first year three of the nine members shall be appointed for one year, three for two years, and three for three years. The Associate Vice President for Budget and Resource Planning shall serve as member ex officio and assure that the Committee receives information on the budget in a form the Committee finds usable. Voting members shall be appointed according to the procedures in the Handbook of Operating Procedures III.21. IV. B. Vacancies that arise from resignation or departure shall be filled in the same manner.

Reporting

The responsible university official shall be the Provost of the University or the Provost’s designee. The committee will receive the budgetary information it requires each year before the budget is finalized, and prepare its assessment and advice, to be conveyed to the Senate, Provost, and President. Policy recommendations shall also be conveyed to the Senate, Provost, and President.

Activities and Schedule

Each year, the committee is to review the university budget and provide an assessment of the impact of budget priorities on the academic programs and teaching and research priorities of the faculty. In addition, the committee shall from time to time, either on a regular cycle or as need may arise, prepare analyses of specific issues that affect faculty and the quality and productivity of academic programs. Issues of this kind that the committee may consider could include, but are not limited to:

1. The relative priorities of consideration of pay equity and of using money to attract especially outstanding new faculty.
2. Salary and pay policy, including problems of salary equity, compression, and inversion.
3. Relative budgetary weight of support services and academic personnel.
4. The possible uses of endowment funds within the constraints of the endowment requirements.
5. Tuition and fees, including admission fees.
6. Allocation of faculty positions to the several schools and programs in relation to university goals and policies.
7. Student salary scales and policies, including policies regarding salary equity.
8. Availability and cost of campus housing in general and for specific student populations, such as graduate versus undergraduate.
10. The balance to be struck between scholarships based on need and scholarships based on merit.

The committee shall also recommend policies or changes in policy on these matters and other such matters as may seem fit, framing the issues to lead the Senate to an informed discussion.

**Annual Reports**

Annually, but no later than August 31, the Chair of the Committee shall provide the Speaker of the Faculty with a written report for the Academic Senate of the Committee’s activities for the prior academic year.

**Policy History**

- Issued: December 10, 2010

**Policy Links**

- Permalink for this policy: [http://policy.utdallas.edu/utdpp1084](http://policy.utdallas.edu/utdpp1084)
- Link to PDF version: [http://policy.utdallas.edu/pdf/utdpp1084](http://policy.utdallas.edu/pdf/utdpp1084)
- Link to printable version: [http://policy.utdallas.edu/print/utdpp1084](http://policy.utdallas.edu/print/utdpp1084)
Committee for the Support of Diversity and Equity - UTDPP1022

Policy Charge

Diversity and Equity

Policy Statement

The Committee for the Support of Diversity and Equity is a University-wide Standing Committee reporting directly to the President of The University of Texas at Dallas.

The Committee meets regularly (at least six times each academic year) to review and discuss issues that affect the institutional status, professional effectiveness and personal morale of women, minorities, and members of other underrepresented groups in full and part-time faculty and staff positions. To support its role in understanding and recommending policy with respect to these and related issues the Committee is empowered to carry out studies, conduct interviews and prepare reports. It meets with the President at the beginning and end of each academic year to receive special charges and reports from the administration and to convey to the administration ideas, concerns and advice from the Committee that address the issues of eliminating institutional features which differentially and negatively affect women, minorities, and members of other underrepresented groups. It is also within the purview of this Committee to recommend the creation and initiation of actions and policies which would support the professional careers of these same individuals.

The Committee shall consist of eleven-twelve faculty members (including members on the faculty of each of the seven Schools), three academic administrators and eight staff members representing the entire university community. The Vice President for Diversity and Community Engagement shall serve as the Responsible University Official (RUO).

The term of office of the committee members shall be for two years, effective September 1 to August 31, staggered in time to make approximately equal numbers of appointments expire each academic year. The President may reappoint members for additional terms. If for any reason a Committee member resigns, the President shall appoint another individual to serve the remainder of the unexpired term. The Chair and Vice Chair are appointed annually by the President.

Policy History

- Issued: November 12, 1997
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- Editorial Amendments: September 1, 2000
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- Link to PDF version: http://policy.utdallas.edu/pdf/utdpp1022
- Link to printable version: http://policy.utdallas.edu/print/utdpp1022
Bylaws of the Academic Senate of The University of Texas at Dallas - UTDPP1007

Policy Statement

I. Preamble

The Academic Senate is a representative body, formed from the General Faculty of The University of Texas at Dallas, in which faculty develop their concerns and proposals in exercising their major roles in faculty governance. The Academic Senate is aided in its work by the Academic Council, a smaller body formed from the Academic Senate which meets regularly with the President and Executive Vice President and Provost (Provost) and by the Faculty Committees. As the regular primary faculty governance body, the Academic Senate is expected to coordinate faculty exercise of faculty governance responsibilities in the interests of academic excellence at The University of Texas at Dallas.

II. Authority

These Bylaws supplement UTDPP1088 - Faculty Governance of the *Handbook of Operating Procedures* of The University of Texas at Dallas. Nothing in these Bylaws shall be construed to conflict with the *Handbook of Operating Procedures*, the *Rules and Regulations of the Board of Regents of The University of Texas System*, or state law.

III. Organization

A. Membership in the Academic Senate

1. Only members of the Voting Faculty are eligible for membership in the Academic Senate. Members of the Voting faculty are limited to the following, as defined in UTDPP 1088, Section I.B.1.a:

   a. Faculty appointed half-time or more to The University of Texas at Dallas who hold the rank of Regental Professor, Professor, Associate Professor, or Assistant Professor.

   b. Faculty appointed half-time or more to The University of Texas at Dallas who hold the rank of Instructor.

   c. Faculty appointed full-time to The University of Texas at Dallas who hold the rank of Clinical Professor, Clinical Associate Professor, Clinical Assistant Professor, or Senior Lecturer 1, 2, or 3.
2. As specified in UTDPP1088, Sec. II.B.1, “The elected members of the Academic Senate shall consist of no fewer than twenty-three and no more than fifty-one voting members of the General Faculty, with intermediate numbers computed so as to be as close to 10% of the voting membership of the General Faculty as possible.” Based on the current size of the General Faculty and projected growth, the number of Senators will be 51.

3. Each School in the University shall be represented in the Senate.

4. A minimum of 50% of Senate positions shall be held by tenure-system faculty and a minimum of 10% of Senate positions shall be held by non-tenure-system faculty.

5. All members elected or appointed to the Academic Senate according to these Bylaws, and only those members, shall be voting members of the Academic Senate.

6. Non-voting participants
   
   a. The President and Vice President of the Student Government Association, or their assignees, shall be invited to attend meetings of the Academic Senate as non-voting participants, except when the Academic Senate is in executive session.

   b. The Chair of the Staff Council shall be invited to attend the Academic Senate meetings as a non-voting participant, except when the Academic Senate is in executive session.

B. Elections for Academic Senate

1. The Secretary of the Faculty shall be in charge of the election, although he or she may designate other faculty and staff members to assist.

2. The nomination and election procedures, including a calendar, shall be distributed no later than February 1. Nomination and election procedures may be online or may utilize paper petitions and ballots. The election procedures, beginning with the nomination process and ending with election of a Speaker of the Faculty-Elect and Secretary of the Faculty-Elect, shall begin no later than March 15 and end no later than April 14. At least two weeks shall be allowed for submission of Academic Senate nominating petitions, and one week for ballots in the Academic Senate election.
3. Nominating petitions are collected by the Office of Academic Governance. For an individual to be placed on the election ballot, two nominating petitions must be submitted on his or her behalf. Any member of the Voting Faculty may submit a nominating petition for any other member of the Voting Faculty, or for himself or herself. No one may submit more than two nominating petitions, and no one may submit more than one nominating petition for any one individual.

4. The Secretary of the Faculty shall ascertain the willingness of each nominee to serve if elected. The names of those who do not wish to serve will not be placed on the ballot.

5. If the number of nominees is below 23 (the minimum number of Senate positions as specified in UTDPP1088, Sec. II.B.1), the nominating period shall be extended, and the Secretary of the Faculty shall make additional efforts to encourage nominations.

6. If the number of nominees exceeds the minimum of 23, but does not exceed the maximum of 51, all nominees shall be deemed elected, and there shall be no formal election.

7. The Secretary of the Faculty shall make ballots available by the date designated in the election calendar.

8. Ballots shall be secret and must be submitted in accordance with the election procedures to be valid.

9. Each member of the Voting Faculty may vote for as many five nominees and will indicate his or her first choice, second choice, and so on to a maximum of five. All such votes shall be counted, and the order of choice will only be used for tie-breaking.

10. As explained in III.A.2 above, based on the current size of the General Faculty and projected growth, the number of Senators will be 51. To ensure that 1) all schools are represented (III.A.3 above), 2) at least 50% of Senate positions are allocated to tenure-system faculty (III.A.4 above), and 3) at least 10% of Senate positions are allocated to non-tenure system faculty (III.A.4 above), the following procedures shall be used to determine the results of the election.

   a. The number of Senate positions will be multiplied by 50%, rounded upward if necessary. That number of positions will be allocated to the top tenure-system vote recipients. Thus, based on 51 Senate
positions, the top 26 tenure system vote recipients will be deemed elected. Ties will be broken by counting the number of “first choices” received. If there is still a tie, the number of “second choices” will be counted, and so on.

b. The number of Senate positions will be multiplied by 10%, rounded upward if necessary. That number of positions will be allocated to the top non-tenure-system vote recipients. Based on 51 Senate positions, the top 6 non-tenure-system vote recipients will be deemed elected. Ties will be broken by counting the number of “first choices” received. If there is still a tie, the number of “second choices” will be counted, and so on.

c. If any School within the University is not represented in 1 and 2 above, the top vote recipient from that school will be deemed elected.

d. To fill the remaining positions, all remaining nominees, whether tenure-system or non-tenure system, will be pooled and ranked by number of votes received. Ties will be broken by counting the number of “first choices” received. If there is still a tie, the number of “second choices” will be counted, and so on.

e. If there are fewer nominees in either of the two faculty categories (tenure system and non-tenure system) than the number of Senate positions calculated by the 50% or 10% factor, respectively, all nominees in that category will be deemed elected and the minimum percentage will not apply.

2. The Secretary of the Faculty shall notify successful candidates of their election and of the date of the Senate-Elect Caucus, and shall notify the General Faculty of the election results.

C. Vacancies and Appointments

1. If a member of the Academic Senate resigns his or her seat or leaves The University of Texas at Dallas for a period expected to exceed four months, that seat shall be filled by the unelected candidate who received the most votes in the prior election, bearing in mind the minimum number of required tenure-system, non-tenure-system, and school faculty for Academic Senate.
2. If enough seats are vacated such that the original nomination list is exhausted, the Academic Senate shall fill vacancies by majority vote of all members of the Academic Senate.

3. In the event a sitting member of the Academic Senate is appointed to the position of Dean, that individual is no longer eligible for Academic Senate membership. That seat will be vacated, and the Academic Senate shall fill the vacancy in accordance with III.C.1 and III.C.2 above.

4. If a member of the Academic Senate misses two consecutive Senate meetings, the Senator will be contacted by the Secretary of the Faculty to ascertain whether he or she still wishes to serve. If not, the Senator will be immediately replaced by the procedures of Sections III.C.1 and III.C.2 above.

5. If a member of the Academic Senate misses three meetings during September-May, the Academic Senate may, by a majority vote of those present, declare the seat vacant. The seat will then be filled by the procedures of Section III.C.1 and III.C.2 above.

D. Officers

1. Roster and Duties

   a. Speaker of the Faculty: The Speaker of the Faculty is the principal elected officer of the General Faculty, of the Academic Senate, and the Academic Council. The Speaker shall:

      i. preside as described in the Handbook of Operating Procedures, Title III, Chapter 21;
      ii. chair the Executive Committee, if any, of the Academic Senate in its coordination of the work of the General Faculty, Academic Senate, Academic Council, and Concurrent Committees in order to improve the academic welfare and standing of The University of Texas at Dallas;
      iii. assist in formulating faculty views as motions to be placed before the Academic Council or Senate for discussion and resolution; and
      iv. together with the Secretary of the Faculty, review drafts of the minutes and authorize their circulation for formal approval.

   iv-iv. sign the official copy of the approved minutes of the Academic Council and Academic Senate.
b. Secretary of the Faculty: The Secretary of the Faculty shall:

i. serve as Secretary for meetings of the General Faculty, the Academic Senate, and the Academic Council;

ii. see that minutes are kept, made available to any faculty member, and filed in the Office of the President and, through that office, with the Executive Vice Chancellor for Academic Affairs of The University of Texas System, and with the Library of The University of Texas at Dallas;

iii. together with the Speaker of the Faculty, review drafts of the minutes and authorize their circulation for formal approval;

iv. provide a report on Academic Senate and Academic Council activities to the General Faculty at least once a yeareach semester of the long term;

v. in case of the absence of the Speaker from a meeting of Academic Council or Academic Senate sign the official copy of the approved minutes of the Academic Council and Academic Senatefor transmittal to the Executive Vice Chancellor for Academic Affairs of The University of Texas System; and

vi. maintain a list of all recommendations that the Academic Senate and/or Academic Council has made to the administration so that the President may be requested to comment on these items at the beginning of each meeting.

c. Vice Speaker: The Speaker may appoint one or two members of the Senate to serve as Vice Speaker(s) and assist in carrying out the Speaker’s official and unofficial duties. Vice Speaker(s) will serve for a term of one year, and will become ex officio voting members of the Academic Council if not already elected to the Council by the Senate.

d. Other Offices: The Academic Senate may, through its Resolution of Operating Procedures, create, provide for election or appointment, and provide duties for other offices of the Academic Senate and the Academic Council.

2. Election of Officers

a. The Academic Senate-Elect shall, in a caucus announced to and open to the voting members of the General Faculty and presided over by the Speaker of the Faculty, and under Robert's Rules of Order (current
The individual elected shall be known as the Speaker-Elect of the Faculty until June 1. The term of the Speaker of the Faculty shall be for two years.

b. The Academic Senate-Elect shall, in a caucus announced to and open to the voting members of the General Faculty and presided over by the Speaker-Elect of the Faculty, and under Robert’s Rules of Order (current edition) elect its Secretary of the Faculty, who shall be known as the Secretary-Elect of the Faculty until June 1.

c. Until the election of the Secretary-Elect of the Faculty, the Secretary of the Faculty shall perform the routine functions of Secretary for the Academic Senate-Elect.

E. Academic Council

1. Relation to Academic Senate: The Academic Senate should, through its Resolution of Operating Procedures, specify at least the following:

a. the powers delegated to the Academic Council;

b. the extent to which the Academic Council is to function as an executive committee for the Academic Senate;

c. the extent to which the Academic Council is to function as an agenda committee for the Academic Senate; and

d. the communications required between the Academic Council and the Academic Senate, and between the Academic Council, Academic Senate and the Voting Faculty, including the appropriate form for the Minutes of the Academic Council and the Academic Senate.

2. Election, Removal, and Vacancies

a. After the election of the Speaker-Elect and Secretary-Elect of the Faculty, the Academic Senate-Elect shall, in a caucus announced to and open to the voting members of the General Faculty and presided over by the Speaker-Elect of the Faculty, and under Robert’s Rules of Order (current edition), elect the remaining members of the Academic Council using the plurality system as described in III.A.17. Members in addition to six may be appointed by the Speaker with approval of the Council. Election shall be by simple plurality vote, with each member
of the Senate voting for a number of candidates up to the number of positions to be filled.

b. These members, along with the Speaker-Elect of the Faculty and the Secretary-Elect of the Faculty, shall be known as the Academic Council-Elect until June 1.

c. The Academic Senate, in a caucus session, may accept resignations of members of the Academic Council, remove any members of the Academic Council except the Speaker of the Faculty or the Secretary of the Faculty, and vote on replacements to the Academic Council.

d. When a member of the Academic Council must be absent from a meeting, the member may designate, through the Secretary of the Faculty, a Senator to represent him or her at that meeting as a member of the Academic Council.

e. The President of the Student Government Association shall be a non-voting participant in the Academic Council during the Council's non-executive sessions.

f. If appointed by the Speaker to serve as Vice Speaker, Senators will serve as ex officio voting members of the Academic Council for the duration of their term.

IV. Procedures

A. The Academic Senate shall be governed by Robert's Rules of Order (current edition) unless procedures described in the Handbook of Operating Procedures, UTDPP1088 - Faculty Governance or these Bylaws make exception to Robert's Rules of Order.

B. Actions of the Academic Senate

1. Actions During the Spring and Summer

a. At the first meeting of the Academic Senate, which shall be called by the Speaker-Elect of the Faculty to take place as soon after June 1 as practical, the Academic Senate shall prepare a calendar of regular meetings for the Academic Council and for the Academic Senate and shall set the date of the annual General Faculty meeting. The calendar shall be published as early in the academic year as possible.
b. As soon as possible after the new Academic Council is elected June 1, the Academic Senate shall appoint the Committee on Committees so that it may begin composing slates of nominees for the University, Concurrent, and Academic Senate committees for which it is charged. The membership of the Committee on Committees shall be approved by a majority vote.

2. Submissions of Items for Debate

a. The Agenda Packet for the Academic Senate normally will normally be sent to the Senate one week prior to a meeting of the Academic Senate.

b. The Agenda Committee for the Academic Senate, consisting of the President, the Secretary, and the Speaker normally will normally confer meet five days prior to the submission of the Agenda Packet to the Academic Senate.

c. Items for debate that are not on the Academic Senate Agenda normally will normally be deferred to a later Academic Senate meeting, unless two-thirds of the members present vote to consider the items.

d. The Agenda Committee for the Academic Senate will attempt to bring all items submitted to it to the Academic Senate, although it may recommend that particular items be sent to committee and/or to the Academic Council prior to Academic Senate debate. Any memorandum submitted by any General Faculty member of the University to the Academic Senate or to the Speaker of the Faculty that requests action by the Academic Senate or Academic Council must be reported to the Academic Senate by the Agenda Committee of the Academic Senate.

3. Debate and Passage

a. If the President and Provost are not available to chair meetings of the Senate at which legislation is enacted, the Speaker shall chair. In the absence of the Speaker, a Vice Speaker shall chair, in the absence of a Vice Speaker, the Secretary shall chair. In the absence of the Secretary, the meeting may be chaired by any member of the Senate designated by the Speaker.
b. The chair of a meeting of the Academic Senate may participate in the debate but shall exercise particular care to preside in a manner which is fair to all points of view in the debate.

c. The President and/or the Speaker of the Faculty may invite to meetings of the Academic Senate those persons believed to be necessary to assist the Academic Senate in the conduct of its business.

d. Except when the Academic Senate is in executive session, meetings of the Academic Senate are open to the General Faculty, who may request the privilege of participation in the debate.

e. A simple majority of the voting membership of the Senate constitutes a quorum. If a quorum is not present, business that would otherwise have been conducted may be discussed, but votes shall not be taken.

f. Members of the Academic Senate who anticipate making lengthy or complicated amendments to legislation should bring sufficient written copies to distribute to the entire Academic Senate.

g. Passage of legislation or resolutions shall require a simple majority of those voting members present. Votes shall be recorded by hand count: ayes, nays, abstain. Role call votes shall be taken if three or more members request.

h. The Secretary of the Faculty is responsible for sending copies of motions passed to the parties addressed.

3. Actions of the Academic Council

a. Submission of Items for Debate

i. The Agenda Committee for the Academic Council, consisting of the President, the Secretary, and the Speaker, normally will confer by e-mail meets at least five days before each Academic Council meeting. Items to be included on an agenda must be submitted prior to that time.

ii. Items for the Agenda of the Academic Council will normally originate with the President and with the Academic Senate, its Executive Committee, or the Speaker of the Faculty.
b. Transmissions from Academic Council to Academic Senate

The Academic Council shall formulate its recommendations to the Academic Senate and transmit them to the Agenda Committee of the Academic Senate. It shall generally transmit all items submitted to it to the Agenda Committee of the Academic Senate.

4. Records and Communications

a. Actions required by motions of the Academic Senate or Academic Council, as described in the minutes, will be conveyed to those concerned, or will be taken by the Academic Governance Secretary only after approval of the minutes for circulation, but without waiting for the formal approval of the minutes at the subsequent meeting of the Academic Senate or Academic Council.

b. The general policy on composition and contents of records including minutes is the same for both the Academic Council and Academic Senate, and is as follows:

i. Consistent with Robert's Rules of Order, the approved minutes constitute the only official record of the actions of the Academic Council and Academic Senate;

ii. The minutes are intended to allow members of the General Faculty to follow the debates and actions within their representative bodies, the Academic Senate, and within the Academic Council;

iii. The Secretary of the Faculty or the Academic Governance Secretary may make recordings of the Academic Council and Academic Senate meetings. Tapes of meetings shall not, however, be considered official documents, and will be kept only until the minutes of the meeting recorded are officially approved;

iv. Unapproved minutes of Academic Council and Academic Senate meetings shall be distributed to the Academic Senate expeditiously, if possible within one week after the meeting;

v. Minutes are numbered serially each year, including special meetings;

vi. Attendance for minutes includes both those present and absent of the voting membership, ex officio members, and student observers. Invited guests are also listed;

vii. Minutes of the Academic Council and Academic Senate are distributed to all members of the Academic Senate, and made
available at the authorized locations for Regents' Rules and Regulations, and are also sent to the Executive Vice Chancellor for Academic Affairs of The University of Texas System; and

viii. The minutes of the last meetings of the Academic Senate and Academic Council will be approved by the incoming Academic Senate or Academic Council, respectively.

c. The Academic Senate shall establish procedures, in its Resolution of Operating Procedures, to disseminate information about its debates and actions to the General Faculty effectively and expeditiously.

5. Resolution of Operating Procedures: The Academic Senate may, by adoption or revision of its Resolution of Operating Procedures, modify the following portions of its procedures without having to amend these Bylaws:

a. delegation of duties and powers to the Academic Council;

b. designation and powers of the Agenda Committee;

c. designation and powers of the Executive Committee, if any; and

d. instructions to the Secretary of the Faculty regarding the character of action or discussion minutes to be taken.

6. Amendment of Bylaws

a. These Bylaws may be amended by a majority vote of the Senate members, provided that the proposed amendment passes, without an intervening negative vote, at two consecutive meetings of the Academic Senate separated by at least two weeks.

b. The Secretary of the Faculty shall transmit a copy of the amended Bylaws to the President for review and approval and submission to the Executive Vice Chancellor for Academic Affairs and approval for inclusion in the U. T. Dallas Handbook of Operating Procedures.

c. The amended Bylaws shall become effective immediately on approval for inclusion in the Handbook of Operating Procedures.

Policy History
• Issued: September 10, 1979
• Revised: February 28, 1980
• Revised: December 14, 1982
• Revised: April 21, 1983
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• Permalink for this policy: http://policy.utdallas.edu/utdpp1007
• Link to PDF version: http://policy.utdallas.edu/pdf/utdpp1007
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