



School of Natural Sciences and Mathematics
2009-2010 Transfer Guide for
Texas Common Course Numbering System

Major: ACTUARIAL SCIENCE

Degree: Bachelor of Science (B.S.)

UTD Courses

TCCNS Courses

I. UTD CORE CURRICULUM REQUIREMENTS (42 Semester Hours)			
A. Communication (6 Hours)			
RHET 1302	Rhetoric	ENGL 1302*	010 Core Code
*(ENGL 1301 is prerequisite to ENGL 1302 and must be completed prior to taking ENGL 1302. ENGL 1301 can be used for elective hours.)			
BA 3311*	Business Communications	N/A	
*(BA 3311, taken at UTD, will satisfy three hours of the communication core curriculum requirement as well as satisfy the upper-division major advanced writing requirement.)			
B. Social and Behavioral Sciences (15 Hours)			
6 Hours of Government (Texas Legislative Mandate):		Choose one two-course series:	070 Core Code
GOVT 2301* and	Const Found & Pol Beh in US and Texas	GOVT 2301 and	
GOVT 2302*	Political Institutions in US and Texas	GOVT 2302	
		or	
N/A	American Federal Government	GOVT 2305 and	
N/A	Texas Government	GOVT 2306	
*(Consult your academic advisor for course descriptions. The six hour government requirement must include study of the Constitution of the United States and the Constitution of Texas.)			
6 Hours of American History (Texas Legislative Mandate):		Two of the following:	060 Core Code
HIST 1301	US History Survey to Civil War	HIST 1301	
HIST 1302	US History Survey from Civil War	HIST 1302	
HIST 2301	History of Texas	HIST 2301	
N/A	Mexican-American History I	HIST 2327	
N/A	Mexican-American History II	HIST 2328	
3 Hours of Social and Behavioral Sciences Elective:			080 Core Code
ECON 2301*	Principles of Macroeconomics	ECON 2301	
*(ECON 2301 is a major requirement that will also satisfy the three hour social and behavioral sciences core curriculum requirement.)			
C. Humanities and Fine Arts (6 Hours)			
HUMA 1301	Exploration of the Humanities	HUMA 1301	040 Core Code
or other core options:			
ENGL 2321, ENGL 2322, ENGL 2323, ENGL 2326, ENGL 2327, ENGL 2328, ENGL 2331, ENGL 2332, ENGL 2333, FREN 2303, FREN 2304, HIST 2311, HIST 2312, HIST 2321, HIST 2322, PHIL 1301, PHIL 1304, PHIL 2303, PHIL 2306, PHIL 2307, PHIL 2316, PHIL 2317.			
ARTS 1301	Exploration of the Arts	ARTS 1301	050 Core Code
or other core options:			
ARCH 1301, ARCH 1302, ARTS 1303, ARTS 1304, DANC 2303, DANC 2304, DRAM 1310, DRAM 2361, DRAM 2362, DRAM 2363, HUMA 1315, MUSI 1306, MUSI 1308, MUSI 1309.			
D. Mathematics and Quantitative Reasoning (6 Hours)			
MATH 2417*	Calculus I (Accelerated)	MATH 2414 or 2417^	020 Core Code
MATH 2419*	Calculus II (Accelerated)	MATH 2415 or 2419^	
*(MATH 2417 and MATH 2419 are major requirements that will also satisfy the six hour mathematics and quantitative reasoning core curriculum requirement.)			

^Note: UTD's accelerated calculus sequence, Math 2417 and Math 2419, is equivalent to the **three**-semester calculus sequence offered at community colleges. Students should complete Calculus I, Calculus II, and Calculus III in order to be equivalent to UTD's Math 2417 and MATH 2419. Students should start and complete the entire sequence either at the community college, or at UTD. If students choose to take Calculus I, II, and III, they should complete all prerequisite courses of MATH 1314, MATH 1316, MATH 2312/2412 before enrolling in MATH 2313, or 2413, or 2513.

UTD Courses	TCCNS Courses
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E. Science (9 Hours)		030 Core Code
PHYS 2325/2125* or PHYS 2421/2125* or CHEM 1311/1111* <i>and</i> PHYS 2326/2126* or PHYS 2422/2126* or CHEM 1312/1112*	Mechanics w/lab Honors Physics I - Mechanics & Heat w/lab General Chemistry I w/lab Electromagnetism and Waves w/lab Honors Physics II - Electromagnetism & Waves w/lab General Chemistry II w/lab <i>*(PHYS 2325/2125, or 2421/2125, or CHEM 1311/1111 and PHYS 2326/2126, or 2422/2126, or CHEM 1312/1112 are major requirements that will also satisfy the nine hour science core curriculum requirement)</i>	PHYS 2325/2125 or 2425 <i>N/A</i> or CHEM 1311/1111 or 1411 PHYS 2326/2126 or 2426 <i>N/A</i> or CHEM 1312/1112 or 1412
And an additional acceptable science course: (See Departmental Advisor)		

II. UTD MAJOR REQUIREMENTS (66 Hours)		
Major Preparatory Courses (21 hours):		
AIM 2301 CS 1337 ECON 2301 ECON 2302 MATH 2417 MATH 2419 MATH 2418 MATH 2420 MATH 2451 PHYS 2325/2125 or PHYS 2421/2125 or CHEM 1311/1111 PHYS 2326/2126 or PHYS 2422/2126 or CHEM 1312/1112	Introductory Financial Accounting Computer Science I Principles of Macroeconomics Principles of Microeconomics Calculus I (Accelerated) Calculus II (Accelerated) Linear Algebra Differential Equations with Applications Multivariable Calculus with Applications Mechanics w/lab Honors Physics I - Mechanics & Heat w/lab General Chemistry I w/lab Electromagnetism and Waves w/lab Honors Physics II - Electromagnetism & Waves w/lab General Chemistry II w/lab	ACCT 2301 or 2401 COSC 1337 or 1437 ECON 2301 ECON 2302 MATH 2414 or 2417 MATH 2415 or 2419 MATH 2418 MATH 2420 <i>N/A</i> PHYS 2325/2125 or 2425 <i>N/A</i> or CHEM 1311/1111 or 1411 PHYS 2326/2126 or 2426 <i>N/A</i> CHEM 1312/1112 or 1412
Advanced Upper-Division Major Requirements: (See Departmental Advisor)		

III. UTD ELECTIVE REQUIREMENTS (30 Hours)	
Advanced Electives (6 hours):	
All students are required to complete at least six hours of advanced electives outside their major field of study. These must be either upper-division courses or lower-division courses that have prerequisites. See Departmental Advisor for recommended courses.	
Free Electives (24 hours):	
Both lower-division and upper-division courses may be used as free electives, but students must complete at least 51 upper-division hours to qualify for graduation. See Departmental Advisor for recommended courses.	

A MINIMUM OF 120 SEMESTER HOURS IS REQUIRED FOR GRADUATION WITH AT LEAST 51 UPPER-DIVISION HOURS.

Note: Core options listed reflect the TCCNS courses. Other courses that may potentially qualify for core requirements must be approved by an academic advisor or the department housing the student's major.

UTD does not accept vocational or technical courses in certificate or applied science programs, nor courses offered through the Workforce Education Course Manual (WECM), nor developmental courses. Consult the current online UTD catalog for complete degree plan requirements.

www.utdallas.edu/student/catalog/ugcurrent/undergradprograms.html