



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

**Double Major: MOLECULAR BIOLOGY and BUSINESS ADMINISTRATION**

**Degree: Bachelor of Science (B.S.)**

**UTD Courses**

**TCCNS Courses**

**I. UTD CORE CURRICULUM REQUIREMENTS (42 Semester Hours)**

<b>A. Communication (6 Hours)</b>			
<b>RHET 1302</b>	Rhetoric	<b>ENGL 1302*</b>	010 Core Code
<i>*(ENGL 1301 is prerequisite to ENGL 1302 and must be completed prior to taking ENGL 1302. ENGL 1301 can be used for elective hours.)</i>			
<b>BA 4305*</b>	Strategic Management	N/A	
<i>*(BA 4305, taken at UTD, will satisfy three hours of the communication core curriculum requirement as well as satisfy the upper-division major advanced writing requirement.)</i>			
<b>B. Social and Behavioral Sciences (15 Hours)</b>			
<b>6 Hours of Government (Texas Legislative Mandate):</b>		<i>Choose one two-course series:</i>	070 Core Code
<b>GOVT 2301* and</b>	Const Found & Pol Beh in US and Texas	<b>GOVT 2301 and</b>	
<b>GOVT 2302*</b>	Political Institutions in US and Texas	<b>GOVT 2302</b>	
		<i>or</i>	
N/A	American Federal Government	<b>GOVT 2305 and</b>	
N/A	Texas Government	<b>GOVT 2306</b>	
<i>*(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.)</i>			
<b>6 Hours of American History (Texas Legislative Mandate):</b>		<i>Two of the following :</i>	060 Core Code
<b>HIST 1301</b>	US History Survey to Civil War	<b>HIST 1301</b>	
<b>HIST 1302</b>	US History Survey from Civil War	<b>HIST 1302</b>	
<b>HIST 2301</b>	History of Texas	<b>HIST 2301</b>	
N/A	Mexican-American History I	<b>HIST 2327</b>	
N/A	Mexican-American History II	<b>HIST 2328</b>	
<b>3 Hours of Social and Behavioral Sciences Elective:</b>			080 Core Code
<b>ECON 2301*</b>	Principles of Macroeconomics	<b>ECON 2301</b>	
<i>*(ECON 2301 is a major requirement that will also satisfy the three hour social and behavioral sciences core curriculum requirement.)</i>			
<b>C. Humanities and Fine Arts (6 Hours)</b>			
<b>HUMA 1301</b>	Exploration of the Humanities	<b>HUMA 1301</b>	040 Core Code
<i>or other core options:</i>			
<b>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.</b>			
<b>ARTS 1301</b>	Exploration of the Arts	<b>ARTS 1301</b>	050 Core Code
<i>or other core options:</i>			
<b>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.</b>			
<b>D. Mathematics and Quantitative Reasoning (6 Hours)</b>			
			020 Core Code
<b>MATH 2417*</b>	Calculus I (Accelerated)	<b>MATH 2314 or 2414 or 2417^</b>	
<b>MATH 2419*</b>	Calculus II (Accelerated)	<b>MATH 2315 or 2415 or 2419^</b>	
<i>*(MATH 2417 and MATH 2419 are major requirements that will also satisfy the six hour mathematics and quantitative reasoning core curriculum requirement.)</i>			
<b>^Note:</b> UTD's accelerated calculus sequence, Math 2417 and Math 2419, is equivalent to the <b>three</b> -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.			

<b>UTD Courses</b>	<b>TCCNS Courses</b>
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E.	Science (9 Hours)		030 Core Code
<b>CHEM 1311/1111*</b>	General Chemistry I w/lab	<b>CHEM 1311/1111 or 1411</b>	
<b>CHEM 1312/1112*</b>	General Chemistry II w/lab	<b>CHEM 1312/1112 or 1412</b>	
<b>PHYS 1101*</b>	College Physics Laboratory I	<b>PHYS 1101 or lab of PHYS 1401</b> <b>or PHYS 2125 or lab of PHYS 2425</b>	
<i>*(CHEM 1311/1111, CHEM 1312/1112, and PHYS 1101 are major requirements that will also satisfy the nine hour science core curriculum requirement)</i>			

<b>II. UTD MAJOR REQUIREMENTS (86 Hours)</b>
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Business Administration Major Preparatory Courses:			
<b>AIM 2301</b>	Introductory Financial Accounting	<b>ACCT 2301 or 2401</b>	
<b>AIM 2302</b>	Introductory Management Accounting	<b>ACCT 2302 or 2402</b>	
<b>BA 2301</b>	Business and Public Law	<b>BUSI 2301</b>	
<b>ECON 2301</b>	Principles of Macroeconomics	<b>ECON 2301</b>	
<b>ECON 2302</b>	Principles of Microeconomics	<b>ECON 2302</b>	
<b>MATH 2333</b>	Matrices, Vectors, and Their Application	<b>N/A</b>	

Biology Major Preparatory Courses:			
<b>CHEM 1311/1111</b>	General Chemistry I w/lab	<b>CHEM 1311/1111 or 1411</b>	
<b>CHEM 1312/1112</b>	General Chemistry II w/lab	<b>CHEM 1312/1112 or 1412</b>	
<b>CHEM 2323/2123</b>	Intro Organic Chemistry I w/lab	<b>CHEM 2323/2123 or 2423</b>	
<b>CHEM 2325/2125</b>	Intro Organic Chemistry II w/Lab	<b>CHEM 2325/2125 or 2425</b>	
<b>MATH 2417</b>	Calculus I (Accelerated)	<b>MATH 2314 or 2414 or 2417</b>	
<b>MATH 2419</b>	Calculus II (Accelerated)	<b>MATH 2315 or 2415 or 2419</b>	
<b>PHYS 3341/3041/1101</b>	Physics for Bio Science I w/Recit/lab	<b>PHYS 2325/2125 or 2425<sup>^</sup></b>	
<b>PHYS 3342/3042/1102</b>	Physics for Bio Science II w/Recit/lab	<b>PHYS 2326/2126 or 2426<sup>^</sup></b>	
<i>^(PHYS 2325/2125 or 2425 and PHYS 2326/2126 or 2426 satisfy the PHYS 3341 and PHYS 3342 requirements only if completed <b>prior</b> to transfer to UTD.)</i>			
<b>BIOL 2281*</b>	Introductory Biology Laboratory	<b>BIOL 1106 &amp; BIOL 1107* or labs of BIOL 1406 &amp; BIOL 1407*</b>	
<i>*(BIOL 2281 is required for transfer biology majors who have not completed the two hour biology majors lab requirement <b>prior</b> to transfer to UTD.)</i>			
<b>BIOL 2311/2111*</b>	Intro Modern Biology I w/workshop	<b>BIOL 1306/1106* or 1406*</b>	
<b>BIOL 2312/2112*</b>	Intro Modern Biology II w/workshop	<b>BIOL 1307/1107* or 1407*</b>	
<i>*(BIOL 1306/1106 or 1406 and BIOL 1307/1107 or 1407 will transfer to UTD as BIOL 2311 &amp; BIOL 1106 and BIOL 2312 &amp; 1107 respectively, and will satisfy the lower-division major requirement. The workshops, BIOL 2111 and BIOL 2112, are not required for transfer students.)</i>			

<b>Advanced Upper-Division Major Requirements:</b> (See Departmental Advisor)
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<b>III. UTD ELECTIVE REQUIREMENTS (12 Hours)</b>
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Advanced Electives:			
All students are required to complete at least 6 hours of advanced electives outside their major field of study. These must be either upper-division courses, or lower-division courses that have prerequisites.			
<b>CHEM 2323*</b>	Intro Organic Chemistry I	<b>CHEM 2323 or 2423</b>	
<b>CHEM 2325*</b>	Intro Organic Chemistry II	<b>CHEM 2325 or 2425</b>	
<i>*(CHEM 2323 and CHEM 2325, counted under Major Preparatory Courses, will also satisfy the six hours of advanced electives outside the major.)</i>			

<b>Guided Electives (12 hours):</b> (See Departmental Advisor) All students must complete at least 51 upper-division hours to graduate.
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<b>A MINIMUM OF 140 SEMESTER HOURS IS REQUIRED FOR GRADUATION WITH AT LEAST 51 UPPER-DIVISION HOURS.</b>
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**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.

<http://www.utdallas.edu/student/catalog/ugcurrent/undergradprograms.html>