



School of Natural Sciences and Mathematics
2010-2012 Transfer Guide for
Texas Common Course Numbering System

Major: MOLECULAR BIOLOGY

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.)			
BIOL 4337*	Seminal Papers in Biology	N/A	
or BIOL 4390*	Sr Readings:Molec & Cell Biology	N/A	
or BIOL 4391*	Sr Research:Molec & Cell Biology	N/A	
or BIOL 4398*	Sr Honors Readings:Molec & Cell Biology	N/A	
or BIOL 4399*	Sr Honors Research:Molec & Cell Biology	N/A	
or NATS 4310*	Adv Writing in Natural Sciences & Math	N/A	
*(One of BIOL 4337, 4390, 4391, 4398, 4399, or NATS 4310, taken at UTD , will satisfy three hours of the communication core curriculum requirement as well as 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
Core options:			
ANTH 2302, ANTH 2346, ANTH 2351, ECON 1301, ECON 2301, ECON 2302, ECON 2311, GEOG 1300, GEOG 1302, GEOG 1303, GEOG 2312, PSYC 2301, PSYC 2307, PSYC 2308, PSYC 2311, PSYC 2312, PSYC 2313, PSYC 2314, PSYC 2316, PSYC 2319, SOCI 1301, SOCI 1306, SOCI 2301, SOCI 2319, SOCI 2326, SOCI 2336.			
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)			
See UTD Departmental Advisor for clarification of MATH requirements.			020 Core Code
MATH 2417*	Calculus I (Accelerated)	MATH 2314 or 2414 or 2417^	
MATH 2419*	Calculus II (Accelerated)	MATH 2315 or 2415 or 2419^	
*(MATH 2417 and 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 at the community college in order to be equivalent to UTD's Math 2417 and MATH 2419.

Students should start and complete the entire math sequence either at the community college, or at UTD. Students should complete all prerequisite courses of MATH 1314, MATH 1316, MATH 2312/2412 before enrolling in MATH 2313, or 2413, or 2513, or 2417.

UTD Courses

TCCNS Courses

E. Science (9 Hours)

030 Core Code

CHEM 1311/1111* General Chemistry I w/lab
CHEM 1312/1112* General Chemistry II w/lab
PHYS 1101* College Physics Laboratory I

CHEM 1311/1111 or 1411
CHEM 1312/1112 or 1412
PHYS 1101 or lab of PHYS 1401
or PHYS 2125 or lab of PHYS 2425

**(CHEM 1311/1111, CHEM 1312/1112, and PHYS 1101 are major requirements that will also satisfy the nine-hour science core curriculum requirement.)*

II. UTD MAJOR REQUIREMENTS (68-69 Hours)

Major Preparatory Courses (20-21 hours beyond the Core Curriculum):

CHEM 1311/1111	General Chemistry I w/lab	CHEM 1311/1111 or 1411
CHEM 1312/1112	General Chemistry II w/lab	CHEM 1312/1112 or 1412
CHEM 2323/2123	Intro Organic Chemistry I w/lab	CHEM 2323/2123 or 2423
CHEM 2325/2125	Intro Organic Chemistry II w/Lab	CHEM 2325/2125 or 2425
MATH 2417	Calculus I (Accelerated)	MATH 2314 or 2414 or 2417
MATH 2419	Calculus II (Accelerated)	MATH 2315 or 2415 or 2419
MATH 2418	Linear Algebra	MATH 2318 or 2418
PHYS 3341/1101	Physics for Bio Science I w/lab	PHYS 2325/2125[^] or 2425[^]
PHYS 3342/1102	Physics for Bio Science II w/lab	PHYS 2326/2126[^] or 2426[^]

*[^](PHYS 2325/2125 or 2425 and PHYS 2326/2126 or 2426 satisfy the PHYS 3341 and PHYS 3342 requirements only if completed **prior** to transfer to UTD.)*

Major Core Courses (36 hours):

BIOL 2281*	Introductory Biology Laboratory	BIOL 1106 & 1107* or labs of BIOL 1406 & 1407*
<i>*(BIOL 2281 is required for transfer biology majors who have not completed the two-hour biology majors lab requirement prior to transfer to UTD.)</i>		
BIOL 2311/2111*	Intro to Modern Biology I w/workshop	BIOL 1306/1106* or 1406*
BIOL 2312/2112*	Intro to Modern Biology II w/workshop	BIOL 1307/1107* or 1407*
<i>*(BIOL 1306/1106 or 1406 and BIOL 1307/1107 or 1407 will transfer to UTD as BIOL 2311 & BIOL 1106 and BIOL 2312 & BIOL 1107 respectively, and will satisfy the lower-division major requirement. The workshops, BIOL 2111 and BIOL 2112, are not required for transfer students.)</i>		

Advanced Upper-Division Major Requirements:
(See UTD Departmental Advisor)

III. UTD ELECTIVE REQUIREMENTS (18-19 Hours)

Advanced Electives:

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.

CHEM 2323*	Intro Organic Chemistry I	CHEM 2323 or 2423
CHEM 2325*	Intro Organic Chemistry II	CHEM 2325 or 2425

**(CHEM 2323 and 2325, counted under Major Preparatory Courses, will also satisfy the six hours of advanced electives outside the major.)*

Free Electives (18-19 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.

A MINIMUM OF 129 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