



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

Major: **BIOLOGY**

Degree: **Bachelor of Arts (B.A.)**

<b>UTD Courses</b>	<b>TCCNS Courses</b>
<b>I. UTD CORE CURRICULUM REQUIREMENTS (42 Semester Hours)</b>	
<b>A. Communication (6 Hours)</b>	
<b>RHET 1302</b>  <b>BIOL 4337*</b> or <b>BIOL 4390*</b> or <b>BIOL 4391*</b> or <b>BIOL 4398*</b> or <b>BIOL 4399*</b> or <b>NATS 4310*</b>	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.) Seminal Papers in Biology N/A Sr Readings:Molec & Cell Biology N/A Sr Research:Molec & Cell Biology N/A Sr Honors Readings:Molec & Cell Biology N/A Sr Honors Research:Molec & Cell Biology N/A Adv Writing in Natural Sciences & Math N/A *(One of BIOL 4337, 4390, 4391, 4398, 4399, or NATS 4310, <b>taken at UTD</b> , will satisfy three hours of the communication core curriculum requirement as well as satisfy the upper-division major advanced writing requirement.)
<b>B. Social and Behavioral Sciences (15 Hours)</b>	
<b>6 Hours of Government (Texas Legislative Mandate):</b>	
<b>GOVT 2301* and</b> <b>GOVT 2302*</b>  N/A N/A	<b>Choose one two-course series:</b> <b>GOVT 2301 and</b> <b>GOVT 2302</b> or <b>GOVT 2305 and</b> <b>GOVT 2306</b> 070 Core Code Const Found & Pol Beh in US and Texas Political Institutions in US and Texas American Federal Government Texas Government *(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.)
<b>6 Hours of American History (Texas Legislative Mandate):</b>	
<b>HIST 1301</b> <b>HIST 1302</b> <b>HIST 2301</b> N/A N/A	<b>Two of the following:</b> <b>HIST 1301</b> <b>HIST 1302</b> <b>HIST 2301</b> <b>HIST 2327</b> <b>HIST 2328</b> US History Survey to Civil War US History Survey from Civil War History of Texas Mexican-American History I Mexican-American History II 060 Core Code
<b>3 Hours of Social and Behavioral Sciences Elective:</b>	
<b>Core options:</b> <b>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 2319, SOCI 2301, SOCI 2326, SOCI 2336.</b>	
<b>C. Humanities and Fine Arts (6 Hours)</b>	
<b>HUMA 1301</b> or other core options: <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>	Exploration of the Humanities HUMA 1301 040 Core Code
<b>ARTS 1301</b> or other core options: <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>	Exploration of the Arts ARTS 1301 050 Core Code
<b>D. Mathematics and Quantitative Reasoning (6 Hours)</b>	
<b>MATH 2413* and</b> <b>MATH 2414*</b> or <b>MATH 1325*</b> and <b>STAT 3332*</b>	Differential Calculus Integral Calculus Applied Calculus I Statistics for Life Sciences N/A 020 Core Code <b>MATH 2313 or 2413 or 2513 or 2417 and</b> <b>MATH 2314 or 2414 or 2419</b> or <b>MATH 1325 or 1425</b> *(MATH 2413 and 2414 or MATH 1325 and STAT 3332 are major requirements that will also satisfy the six-hour mathematics and quantitative reasoning core curriculum requirement.)

## UTD Courses

## TCCNS Courses

## 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>

\*(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 (53-55 Hours)

## Major Preparatory Courses (16-18 hours beyond the Core Curriculum):

<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 2413</b> and <b>MATH 2414</b>	Differential Calculus	<b>MATH 2313 or 2413 or 2513 or 2417</b> and <b>MATH 2314 or 2414 or 2419</b>
<b>or MATH 1325</b> and <b>STAT 3332</b>	Integral Calculus Applied Calculus I Statistics for Life Sciences	<b>or MATH 1325 or 1425</b> <b>N/A</b>
<b>PHYS 1301/1101</b> and <b>PHYS 1302/1102</b>	College Physics I w/lab College Physics II w/lab	<b>PHYS 1301/1101 or 1401</b> and <b>PHYS 1302/1102 or 1402</b>
<b>or PHYS 3341/1101</b> and <b>PHYS 3342/1102</b>	Physics for Bio Science I w/lab Physics for Bio Science II w/lab	<b>or PHYS 2325/2125<sup>^</sup> or 2425<sup>^</sup></b> and <b>PHYS 2326/2126<sup>^</sup> or 2426<sup>^</sup></b>

<sup>^</sup>(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 (29-32 hours):

<b>BIOL 2281*</b>	Introductory Biology Laboratory	<b>BIOL 1106 &amp; 1107* or labs of BIOL 1406 &amp; 1407*</b>
	*(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.)	
<b>BIOL 2311/2111*</b>	Intro to Modern Biology I w/workshop	<b>BIOL 1306/1106* or 1406*</b>
<b>BIOL 2312/2112*</b>	Intro to Modern Biology II w/workshop	<b>BIOL 1307/1107* or 1407*</b>

\*(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.)

## Advanced Upper-Division Major Requirements:

(See UTD Departmental Advisor)

## III. UTD ELECTIVE REQUIREMENTS (21-29 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.

<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>

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

## Free Electives (27- 29 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 124 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](http://www.utdallas.edu/student/catalog/ugcurrent/undergradprograms.html)