



Erik Jonsson School of Engineering and Computer Science
 2009-2010 Transfer Guide for
 Texas Common Course Numbering System

Major: SOFTWARE ENGINEERING

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
<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>			
ECS 3390	Professional and Technical Communication	N/A	
B. Social and Behavioral Sciences (15 Hours)			
6 Hours of Government (Texas Legislative Mandate):		Choose one two-course series:	070 Core Code
GOVT 2301*	Const Found & Pol Beh in US and Texas	GOVT 2301 and	
GOVT 2302*	Political Institutions in US and Texas	GOVT 2302	
<i>or</i>			
N/A	American Federal Government	GOVT 2305	
N/A	Texas Government	GOVT 2306	
<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>			
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
ECS 3361	Social Issues and Ethics in CSE	N/A	
C. Humanities and Fine Arts (6 Hours)			
HUMA 1301	Exploration of the Humanities	HUMA 1301	040 Core Code
<i>or other core options:</i>			
ENGL 2321, ENGL 2322, ENGL 2323, ENGL 2326, ENGL 2327, ENGL 2328, ENGL 2331, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, 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
<i>or other core options:</i>			
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)			
			020 Core Code
MATH 2413*	Differential Calculus	MATH 2313 or 2413^	
or MATH 2417*	Calculus I (Accelerated)	or MATH 2417^	
MATH 2414*	Integral Calculus	MATH 2314 or 2414^	
or MATH 2419*	Calculus II (Accelerated)	or MATH 2419^	
<i>*(MATH 2413 or 2417, and MATH 2414 or 2419 are lower-division major requirements that will also satisfy the six hour Mathematics and Quantitative Reasoning core curriculum requirement.)</i>			
<i>^(Students may need to take additional Mathematics courses so that the total number of hours in Mathematics credited to them is at least that specified in the degree requirements. Consult with an advisor.)</i>			
*Note: Software Engineering students need only MATH 2313 or 2413 and MATH 2314 or 2414 to satisfy requirements; however, they may take MATH 2315 or 2415 if they choose or need additional math hours.			

UTD Courses	TCCNS Courses
--------------------	----------------------

E. Science (9 Hours)		030 Core Code
PHYS 2325/2125*	Mechanics w/lab	PHYS 2325/2125 or 2425
PHYS 2326/2126*	Electromagnetism and Waves w/lab	PHYS 2326/2126 or 2426
<i>*(PHYS 2325/2125 and PHYS 2326/2126 are major requirements that will also satisfy eight hours of the science core curriculum requirement.)</i>		
4 Hours Science Elective*:		
<i>*(One hour of science elective is counted under the science core curriculum requirement and three hours are counted under major preparatory courses.)</i>		
Core options: Courses for Non-Science majors CANNOT be used for this requirement.		
BIOL 1306-1106, BIOL 1307-1107, BIOL 1311-1111, BIOL 1313-1113, BIOL 1324-1124, BIOL 1406, BIOL 1407, BIOL 1411, BIOL 1413, BIOL 1424, BIOL 2206, BIOL 2301-2101, BIOL 2302-2102, BIOL 2306-2106, BIOL 2316-2116, BIOL 2321-2121, BIOL 2401, BIOL 2402, BIOL 2406, BIOL 2416, BIOL 2421, BIOL 2428, CHEM 1311-1111, CHEM 1312-1112, CHEM 1411, CHEM 1412, CHEM 2301-2101, CHEM 2302-2102, CHEM 2402, GEOL 1301-1101, GEOL 1302-1102, GEOL 1303-1103, GEOL 1304-1104, GEOL 1305-1105, GEOL 1345-1145, GEOL 1346, GEOL 1347, GEOL 1401, GEOL 1402, GEOL 1403, GEOL 1404, GEOL 1405, GEOL 1445, GEOL 1446, GEOL 1447, GEOL 2307-2107, GEOL 2309, GEOL 2405, GEOL 2407, GEOL 2409, GEOL 2411, PHYS 1311-1111, PHYS 1312-1112, PHYS 1411, PHYS 1412.		

II. UTD MAJOR REQUIREMENTS (64 Hours)		
Major Preparatory Courses (18 hours beyond Core Curriculum):		
CS 1337	Computer Science I	COSC 1337 or 1437 (JAVA)
CS 2336	Computer Science II	COSC 2336 or 2436 (JAVA)
Students who complete the C++ sequence should contact the ECS Academic Advisor for more information.		
CS 2305	Discrete Mathematics for Computing I	MATH 2305 or 2405
MATH 2418	Linear Algebra	MATH 2318 or 2418^
MATH 2413*	Differential Calculus	MATH 2413^
or MATH 2417*	Calculus I (Accelerated)	MATH 2314 or 2414 or 2417^
MATH 2414*	Integral Calculus	MATH 2414^
or MATH 2419*	Calculus II (Accelerated)	MATH 2315 or 2415 or 2419^
<i>^(Students may need to take additional Mathematics courses so that the total number of hours in Mathematics credited to them is at least that specified in the degree requirements. Consult with an advisor.)</i>		
PHYS 2325/2125	Mechanics w/lab	PHYS 2325/2125 or 2425
PHYS 2326/2126	Electromagnetism and Waves w/lab	PHYS 2326/2126 or 2426
4 Hours Science Elective:		
(See list of course options above under the "E. Science Core Elective")		
Advanced Upper-Division Major Requirements (46 Hours):		
(See Departmental Advisor)		

III. UTD ELECTIVE REQUIREMENTS (18 Hours)
Advanced Electives (6 hours):
All students are required to complete at least 6 hours of advanced electives outside their major field of study. These electives must be either upper-division courses, or lower-division courses that have prerequisites.
Free Electives (12 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. Consult with an advisor.

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 petitioned through 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>