



The School of Engineering and Computer Science
2006-2008 Transfer Guide for
Dallas County Community College District

Major: ELECTRICAL ENGINEERING**Degree: Bachelor of Science (B.S.E.E.)****UTD Courses****DCCCD Courses****I. UTD CORE CURRICULUM REQUIREMENTS (42 Semester Hours)****A. Communications(6 Hours)**

RHET 1302 Composition & 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.)*

ECS 3390 Professional and Technical Communication **N/A**

B. Social and Behavioral Sciences (15 Hours)

6 Hours of Government (Texas Legislative Mandate): **070 Core Code**

GOVT 2301* Const Found & Pol Beh in the U.S. and Texas **GOVT 2301**
GOVT 2302* Political Institutions in the U.S. and Texas **GOVT 2302**
**(Consult your academic advisor for course descriptions. The 6 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 Survey of American History I **HIST 1301**
HIST 1302 Survey of American History II **HIST 1302**
HIST 2301 Texas History **HIST 2301**

3 Hours of Social and Behavioral Sciences Elective: **080 Core Code**

ISSS 3360 Politics and Values in Business and Technology **N/A**

C. Humanities and Fine Arts (6 Hours)

Humanities: **040 Core Code**

Choose one course from the following core options:

CUST2370, ENGL2321, ENGL2322, ENGL2323, ENGL2326, ENGL2327, ENGL2328, ENGL2331, ENGL2332, ENGL2333, FREN2303, FREN2304, HIST2311, HIST2312, HIST2321, HIST2322, HIST2380, HIST2381, PHIL1301, PHIL2303, PHIL2306, PHIL2307, PHIL2316, PHIL2317, RELI1304.

ARTS 1301 Exploration of the Arts **ARTS 1301** **050 Core Code**

or other core options:

ARCH1205, ARCH1301, ARCH1302, ARTS1303, ARTS1304, DANC2303, DRAM1310, DRAM2361, DRAM2362, DRAM2366, HUMA1315, MUSI1306, MUSI1308, MUSI1309.

D. Mathematics and Quantitative Reasoning (6 Hours)

MATH 2417* Calculus I (Accelerated) **MATH 2414^ and** **020 Core Code**
MATH 2419* Calculus II (Accelerated) **MATH 2315^**

**(MATH 2417 and MATH 2419 are major requirements that will also satisfy the 6 hour mathematics and quantitative reasoning core curriculum requirement.)*

^(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.)

***Note:** UTD's accelerated two-semester 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, and MATH 2412 before enrolling in MATH 2513.

UTD Courses	DCCCD Courses
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E.	Sciences (9 Hours)		
PHYS 2325/2125*	Mechanics and Heat w/lab	PHYS 2425	030 Core Code
PHYS 2326/2126*	Electromagnetism and Waves w/lab	PHYS 2426	
CHEM 1311/1111*^	General Chemistry I w/Lab	CHEM 1411	
*(PHYS 2325/2125, PHYS 2326/2126, and CHEM 1311/1111 are major requirements that will also satisfy the 9 hour science core curriculum requirement. ^One hour of Chemistry is counted under Science Core and three hours are counted under Major Preparatory Courses.)			

II. UTD MAJOR REQUIREMENTS (74 Hour)			
Major Preparatory Courses (20 Hours beyond core curriculum):			
CHEM 1311/1111	General Chemistry I w/Lab	CHEM 1411	
CS 1337	Computer Science I	COSC 1437 (JAVA)	
EE 1102	Introduction to Experimental Techniques	ENGR 1172	
EE 2300	Applied Linear Algebra	ENGR 2300	
EE 2310/2110	Introduction to Digital Systems w/Lab	ENGR 2310/2110	
MATH 2417	Calculus I (Accelerated)	MATH 2415^ and	
MATH 2419	Calculus II (Accelerated)	MATH 2315^	
MATH 2420	Differential Equations with Applications	MATH 2320^ or 2420^	
^ (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.)			
PHYS 2325/2125	Mechanics and Heat w/lab	PHYS 2425	
PHYS 2326/2126	Electromagnetism and Waves w/lab	PHYS 2426	
Advanced Upper-Division Major Requirements (54 Hours):			
(See Departmental Advisor)			

III. UTD ELECTIVE REQUIREMENTS (12 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 electives must be either upper-division courses, or lower-division courses that have prerequisites..
Free Electives (6 Hours):
Both lower-division and upper-division course 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 128 SEMESTER HOURS IS REQUIRED FOR GRADUATION WITH AT LEAST 51 UPPER-DIVISION HOURS.

Note: Core options listed only reflect the courses offered at DCCCD. 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>