

COMPUTER SCIENCE (BS)

Erik Jonsson School of Engineering and Computer Science



2021-2022 Two-Year Transfer PATHWAY using the Texas Common Course Numbering System

This transfer pathway is intended as a *general* guide for UT DALLAS' lower-division major requirements and Core Curriculum requirements.

Please consult the current online UT DALLAS catalog for complete degree plan requirements.

<http://catalog.utdallas.edu/2021/undergraduate/programs>

*This is an **example** only. Please see advisor to develop individual plan.*

FRESHMAN YEAR							
FALL SEMESTER		Core Area	SCH	SPRING SEMESTER		Core Area	SCH
ENGL 1301	Composition I	010 Core	3	ENGL 1302	Composition II	010 Core	3
HIST 1301	U.S. History I	060 Core	3	HIST 1302	U.S. History II	060 Core	3
MATH 2413 or MATH 2313	Calculus I	020 Core	4	MATH 2414 or MATH 2314	Calculus II	020/090 Core	4
ENGR 1201	Introduction to Engineering		2	PHYS 2325/2125 or PHYS 2425	University Physics I w/lab	030/090 Core	4
COSC 1336 or COSC 1436	Programming Fundamentals I		3	COSC 1337 or COSC 1437	Programming Fundamentals II		3
Total Semester Credit Hours			15	Total Semester Credit Hours			17

SOPHOMORE YEAR							
FALL SEMESTER		Core Area	SCH	SPRING SEMESTER		Core Area	SCH
040 Core Course	See UTD Transfer Plan	040 Core	3	050 Core Course	See UTD Transfer Plan	050 Core	3
GOVT 2305	Federal Government	070 Core	3	GOVT 2306	Texas Government	070 Core	3
COSC 2336 or COSC 2436	Programming Fundamentals III		3	COSC 2325 (FOS) or COSC 2425	Computer Organization		3
MATH 2305	Discrete Mathematics		3	MATH 2418 or MATH 2318	Linear Algebra		4
PHYS 2326/2126 or PHYS 2426	University Physics II w/lab	030/090 Core	4	080 Core Course	See UTD Transfer Plan	080 Core	3
Total Semester Credit Hours			16	Total Semester Credit Hours			16

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If you believe you have completed a **Field of Study (FOS) program** in this major at a Texas Public Community College, email the UTD Office of the Registrar:

records@utdallas.edu

UT DALLAS REQUIREMENT	TCCNS COURSE EQUIVALENT**
I. UT DALLAS CORE CURRICULUM REQUIREMENTS: 42 semester credit hours	
Communication: 6 semester credit hours 010 Core Code	
RHET 1302 Rhetoric ECS 3390 Professional and Technical Communication (See UT DALLAS Departmental Advisor)	ENGL 1302* <i>*(ENGL 1301 is prerequisite to ENGL 1302 and must be completed prior to taking ENGL 1302. ENGL 1301 can be used to satisfy three semester credit hours of the Communication Core Curriculum requirement.)</i> N/A
Mathematics: 3 semester credit hours 020 Core Code	
MATH 2413* Differential Calculus or MATH 2417* Calculus I (Accelerated) <i>*(MATH 2413 or MATH 2417 is a required major preparatory course - noted in Section II below - that also fulfills the three-semester-credit-hour Mathematics Core Curriculum requirement.)</i>	MATH 2413 or 2313 N/A
Life and Physical Sciences: 6 semester credit hours 030 Core Code	
PHYS 2325* Mechanics PHYS 2326* Electromagnetism and Waves <i>*(PHYS 2325 and PHYS 2326 are required major preparatory courses - noted in Section II below - that also fulfill the six-semester-credit-hour Life and Physical Sciences Core Curriculum requirement.)</i>	PHYS 2325 or 2425 PHYS 2326 or 2426
Language, Philosophy, and Culture: 3 semester credit hours 040 Core Code	
Choose one course from the following: HUMA 1301 Exploration of the Humanities LIT 2331 Introduction to World Literature PHIL 1301 Introduction to Philosophy PHIL 1305 Introduction to Philosophy of Religion PHIL 1306 Introduction to Ethics PHIL 2316 History of Philosophy I	HUMA 1301 ENGL 2331 PHIL 1301 PHIL 2321 PHIL 2306 PHIL 2316 <i>Or: select 3 semester credit hours from other TCCNS core options:</i> ENGL 2321, ENGL 2322, ENGL 2323, ENGL 2326, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, HIST 2311, HIST 2312, HIST 2321, HIST 2322, PHIL 1304, PHIL 2307.
Creative Arts: 3 semester credit hours 050 Core Code	
Choose one course from the following: AHST 1303 Survey/Western Art History: Ancient-Medieval AHST 1304 Survey/Western Art History: Renaissance-Modern ARTS 1301 Exploration of the Arts DANC 1305 Introduction to World Dance Forms DANC 1310 Understanding Dance FILM 2332 Understanding Film MUSI 1306 Understanding Music THEA 1310 Understanding Theatre	ARTS 1303 ARTS 1304 ARTS 1301 DANC 1305 DANC 2303 DRAM 2366 MUSI 1306 DRAM 1310 <i>Or: select 3 semester credit hours from other TCCNS core options:</i> ARCH 1301, ARCH 1302, DRAM 2361, DRAM 2362, HUMA 1315, MUSI 1308, MUSI 1309.
American History: 6 semester credit hours 060 Core Code	
Texas Legislative Mandate Choose two courses from the following: HIST 1301 US History Survey to Civil War HIST 1302 US History Survey from Civil War HIST 2301 History of Texas HIST 2381 African-American History	HIST 1301 HIST 1302 HIST 2301 HIST 2381

UT DALLAS REQUIREMENT	TCCNS COURSE EQUIVALENT**
Government/Political Science: 6 semester credit hours	
070 Core Code	
Texas Legislative Mandate*	
GOVT 2305 American National Government	GOVT 2305
GOVT 2306 State and Local Government	GOVT 2306
*The six-semester-credit-hour government course mandate requires study of the Constitution of the United States and the Constitution of Texas. (See UT DALLAS Departmental Advisor if you have questions)	
Social and Behavioral Sciences: 3 semester credit hours	
080 Core Code	
Choose one course from the following:	
CRIM 1301 Introduction to Criminal Justice	CRIJ 1301
CRIM 1307 Introduction to Crime and Criminology	CRIJ 1307
ECON 2301 Principles of Macroeconomics	ECON 2301
ECON 2302 Principles of Microeconomics	ECON 2302
PSY 2301 Introduction to Psychology	PSYC 2301
PSY 2314 Lifespan Development	PSYC 2314
SOC 1301 Introduction to Sociology	SOCI 1301
Or: select 3 semester credit hours from other TCCNS core options: ANTH 2302, ANTH 2346, ANTH 2351, ECON 1301, GEOG 1302, GEOG 1303, PSYC 2307, PSYC 2308, PSYC 2316, PSYC 2319, SOCI 1306, SOCI 2301, SOCI 2326, SOCI 2336.	
Component Area Option: 6 semester credit hours	
090 Core Code	
MATH 2413* Differential Calculus	MATH 2413 or 2313
or MATH 2417* Calculus I (Accelerated)	N/A
MATH 2414* Integral Calculus	MATH 2414 or 2314
or MATH 2419* Calculus II (Accelerated)	N/A
PHYS 2125* Physics Laboratory I	PHYS 2125 or lab of 2425
*(MATH 2413 or 2417, and MATH 2414 or 2419, and PHYS 2125 are required major preparatory courses - noted in Section II below - that also fulfill the six-semester-credit-hour Component Area Option Core Curriculum requirement.)	
II. UT DALLAS MAJOR REQUIREMENTS: 72 semester credit hours	
Major Preparatory Courses:	
ECS 1100 and CS 1200 Introduction to Engineering and Computer Science Intro to Computer Science & Software Engineering	ENGR 1201 and make up one hour with upper-division CS/SE elective at UTD (Contact UT DALLAS ECS Departmental Advisor to clarify)
CS 1136 Computer Science Lab	N/A
CS 1336 Programming Fundamentals	COSC 1336 or 1436
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 an ECS Academic Advisor for more information.)
CS 2305 Discrete Mathematics for Computing I	MATH 2305
CS 2340 Computer Architecture	N/A
MATH 2413 Differential Calculus	MATH 2413 or 2313^
or MATH 2417 Calculus I (Accelerated)	N/A
MATH 2414 Integral Calculus	MATH 2414 or 2314^
or MATH 2419 Calculus II (Accelerated)	N/A
MATH 2418 Linear Algebra	MATH 2418 or 2318^ ^(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.)
PHYS 2325/2125 Mechanics and Physics Lab I	PHYS 2325/2125 or 2425
PHYS 2326/2126 Electromagnetism and Waves and Physics Lab II	PHYS 2326/2126 or 2426
(See UT DALLAS Departmental Advisor for upper-division course requirements)	
III. UT DALLAS ELECTIVE REQUIREMENTS: 10 semester credit hours	
Free Electives: 10 semester credit hours	
Both lower-division and upper-division courses may count as electives. But students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.	
Degree programs in the Erik Jonsson School of Engineering and Computer Science are governed by various accreditation boards that place restrictions on courses used to meet the curricular requirements of degrees they certify. For this reason, not all courses offered by the University can be used to meet elective requirements. Please check with your academic advisor before enrolling in courses you hope to use as free electives. (See UT DALLAS Departmental Advisor)	
A MINIMUM OF 124 SEMESTER CREDIT HOURS IS REQUIRED FOR GRADUATION WITH AT LEAST 51 UPPER-DIVISION SEMESTER CREDIT HOURS.	
**PLEASE NOTE: Transfer Core options listed reflect the TCCNS courses only, as approved at UT DALLAS. Other Texas public colleges or universities may individually interpret some TCCNS courses in a different core category, which UT DALLAS will honor. Check with a UT DALLAS academic advisor to verify this. Other courses that may potentially qualify for core requirements must be approved by a UT DALLAS academic advisor or the department housing the student's major. Completion of the entire Core Curriculum at another Texas public college or university will substitute for completion of UT DALLAS Core Curriculum. TCCNS courses in Field of Study (FOS) programs will transfer to UT DALLAS. UT DALLAS does not accept vocational or technical courses in certificate or applied science programs, nor Workforce Education (WECM) courses, nor developmental courses.	