BIOMEDICAL ENGINEERING (BS)

Erik Jonsson School of Engineering and Computer Science



2020-2021 Transfer Plan using the Texas Common Course Numbering System

This transfer plan 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/2020/undergraduate/programs

View an example of a Two-Year Transfer Pathway from a Texas Public Community College using TCCNS Courses:

https://www.utdallas.edu/enroll/transfer/pathways/

UT DALLAS I	REQUIREMENT	TCCNS COURSE EQUIVALENT**
I IIT DAI I AS	CORE CURRICULUM REQUIREMENTS: 42 seme	etar cradit houre
I. OI DALLAC	OCILE CONTIOUEOM NEWOINEMENTO. 42 Seme	ster creat nours
Communication	n: 6 semester credit hours	010 Core Code
RHET 1302	Rhetoric	*ENGL 1302* *(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.)
ECS 3390	Professional and Technical Communication (See UT DALLAS Departmental Advisor)	N/A
Mathematics: 3	semester credit hours	020 Core Code
MATH 2417*	Calculus I (Accelerated) *(MATH 2417 is a required major preparatory course - noted in Section Mathematics Core Curriculum requirement.) (See UT DALLAS Departmental Advisor)	MATH 2413 or 2313 and 2414 or 2314 on II below - that also fulfills the three-semester-credit-hour
Life and Physic	al Sciences: 6 semester credit hours	030 Core Code
PHYS 2325* PHYS 2326*	Mechanics Electromagnetism and Waves *(PHYS 2325 and PHYS 2326 are required major preparatory course Life and Physical Sciences Core Curriculum requirement.)	PHYS 2325 or 2425 PHYS 2326 or 2426 es - noted in Section II below - that also fulfill the six-semester-credit-hour
Language, Phil	osophy, and Culture: 3 semester credit hours	040 Core Code
Choose one cour HUMA 1301 LIT 2331 PHIL 1301 PHIL 1305 PHIL 1306 PHIL 2316	Exploration of the Humanities Introduction to World Literature Introduction to Philosophy Introduction to Philosophy of Religion Introduction to Ethics History of Philosophy I Semester credit hours Se from the following: Survey/Western Art History: Ancient-Medieval Survey/Western Art History: Renaissance-Modern Exploration of the Arts Introduction to World Dance Forms Understanding Dance Understanding Film Understanding Music Understanding Theatre	HUMA 1301 ENGL 2331 PHIL 1301 PHIL 2321 PHIL 2306 PHIL 2316 Or: select 3 semester credit hours from other TCCNS core options: 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. 050 Core Code ARTS 1303 ARTS 1304 ARTS 1301 DANC 1305 DANC 2303 DRAM 2366 MUSI 1306 DRAM 1310 Or: select 3 semester credit hours from other TCCNS core options:
American Histo	ry: 6 semester credit hours	ARCH 1301, ARCH 1302, DRAM 2361, DRAM 2362, HUMA 1315, MUSI 1308, MUSI 1309. 060 Core Code
Texas Legislative	•	000 0010 0000
-	us History Survey to Civil War US History Survey from Civil War Us History Survey from Civil War History of Texas African-American History	HIST 1301 HIST 1302 HIST 2301 HIST 2381
	olitical Science: 6 semester credit hours	070 Core Code
Texas Legislative		
GOVT 2305 GOVT 2306	American National Government State and Local Government *The six-semester-credit-hour government course mandate requires and the Constitution of Texas. (See UT DALLAS Departmental Adv	·

TCCNS COURSE EQUIVALENT**

Social and Bel	navioral Sciences: 3 semester credit hours	080 Core Code	
Choose one cou	rse 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 Ar	ea Option: 6 semester credit hours	090 Core Code	
MATH 2417*	Calculus I (Accelerated)	MATH 2413 or 2313 and 2414 or 2314	
WATH 2419*	Calculus II (Accelerated)	MATH 2415 or 2315	
PHYS 2125*	Physics Laboratory I	PHYS 2125 or lab of 2425	
	* (MATH 2417 and MATH 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.)		
	(See UT DALLAS Departmental Advisor)		

II. UT DALLAS MAJOR REQUIREMENTS: 86 semester credit hours				
Major Preparatory	Courses:			
BIOL 2311/2111	Introduction to Modern Biology I & Workshop	BIOL 1306/1106 or 1406		
BIOL 2281	Introductory Biology Lab	N/A		
CHEM 1311/1111	General Chemistry I and Lab	CHEM 1311/1111 or 1411		
CHEM 1312	General Chemistry II	CHEM 1312 or 1412		
CHEM 2324	Introductory Organic Chemistry for Engineers	CHEM 2323 or 2423 and 2325 or 2425		
CS 1324	Introduction to Programming for Biomedical Engineers	N/A - but may be satisfied by		
		COSC 1337 or 1437 (Java)		
MATH 2417	Calculus I (Accelerated)	MATH 2413 or 2313 and 2414 or 2314		
MATH 2419	Calculus II (Accelerated)	MATH 2415 or 2315		
MATH 2420	Differential Equations with Applications	MATH 2420 or 2320		
		(See UT DALLAS Departmental Advisor to clarify Math 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		
Major Core Course	es (lower-division):			
BMEN 1100*	Introduction to Bioengineering I	*ENGR 1201		
ECS 1100*	Introduction to Engineering and Computer Science	*ENGR 1201		
		*(both BMEN 1100 and ECS 1100 requirements may be satisfied by ENGR 1201)		
BMEN 1208	Introduction to Bioengineering II	(See UT DALLAS Departmental Advisor for equivalent course)		
BMEN 2320	Statics	ENGR 2301 or 2401		
ENGR 2300	Linear Algebra for Engineers	(See UT DALLAS Departmental Advisor for equivalent course)		
	(See UT DALLAS Departmental Advisor for upper-division cours	e requirements)		

A MINIMUM OF 128 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.