

COGNITIVE SCIENCE (BS)

School of Behavioral and Brain Sciences



With Concentrations in:
Psychology/HCI; Neuroscience; AI/Computational Modeling

2021-2022 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/2021/undergraduate/programs>

At the end of this Plan below, view an example of a Two-Year Transfer Pathway from a Texas Public Community College using TCCNS Courses.

UT DALLAS REQUIREMENT	TCCNS COURSE EQUIVALENT**
I. UT DALLAS CORE CURRICULUM REQUIREMENTS: 42 semester credit hours	
Communication: 6 semester credit hours 010 Core Code	
Choose 6 semester credit hours from the following: COMM 1311 Survey of Oral & Technology-based Communication COMM 1315 Public Speaking RHET 1302 Rhetoric	SPCH 1311 SPCH 1315 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>
Mathematics: 3 semester credit hours 020 Core Code	
MATH 2417* Calculus I (Accelerated) (Recommended) or MATH 2413* Differential Calculus <i>*(MATH 2417 or MATH 2413 is a required major preparatory course - noted in Section II below - that also fulfills the three-semester-credit hour Mathematics Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.)</i> (See UT DALLAS Departmental Advisor)	N/A or MATH 2413 or 2313
Life and Physical Sciences: 6 semester credit hours 030 Core Code	
	Select 6 semester credit hours from TCCNS core options: BIOL 1306-1106, BIOL 1307-1107, BIOL 1308-1108, BIOL 1309-1109, BIOL 1311-1111, BIOL 1313-1113, BIOL 1406, BIOL 1407, BIOL 1408, BIOL 1409, BIOL 1411, BIOL 1413, BIOL 2301-2101, BIOL 2302-2102, BIOL 2306-2106, BIOL 2316-2116, BIOL 2320-2120, BIOL 2321-2121, BIOL 2401, BIOL 2402, BIOL 2404, BIOL 2406, BIOL 2416, BIOL 2420, BIOL 2421, CHEM 1305-1105, CHEM 1307-1107, CHEM 1311, CHEM 1312, CHEM 1405, CHEM 1406, CHEM 1407, CHEM 1411, CHEM 1412, GEOL 1301-1101, GEOL 1302-1102, GEOL 1303-1103, GEOL 1304-1104, GEOL 1305-1105, GEOL 1345-1145, GEOL 1347, GEOL 1401, GEOL 1402, GEOL 1403, GEOL 1404, GEOL 1405, GEOL 1445, GEOL 1447, PHYS 1301, PHYS 1302, PHYS 1305-1105, PHYS 1307-1107, PHYS 1310-1110, PHYS 1315-1115, PHYS 1317-1117, PHYS 1401, PHYS 1402, PHYS 1405, PHYS 1407, PHYS 1410, PHYS 1415, PHYS 1417, PHYS 2325-2125, PHYS 2326, PHYS 2425, PHYS 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.

UT DALLAS REQUIREMENT	TCCNS COURSE EQUIVALENT**
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 1301
HIST 1302 US History Survey from Civil War	HIST 1302
HIST 2301 History of Texas	HIST 2301
HIST 2381 African-American History	HIST 2381
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	
PSY 2301* Introduction to Psychology	PSYC 2301
*(PSY 2301 is a required major preparatory course - noted in Section II below - that also fulfills the three-semester-credit hour Social and Behavioral Sciences Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.)	
Component Area Option: 6 semester credit hours	
090 Core Code	
MATH 2419* Calculus II (Accelerated) (Recommended)	N/A
or MATH 2414* Integral Calculus	or MATH 2414 or 2314
CGS 2301* Cognitive Science	N/A
*(MATH 2419 or MATH 2414 and CGS 2301 are required major preparatory courses - noted in Section II below - that also fulfill the six-semester-credit-hour Component Area Option Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.) (See UT DALLAS Departmental Advisor)	

II. UT DALLAS MAJOR REQUIREMENTS: 48-54 semester credit hours	
Major Preparatory Courses:	
CGS 2301 Cognitive Science	N/A
CS 1337 Computer Science I	COSC 1337 or 1437
MATH 2417 Calculus I (Accelerated)	N/A
or MATH 2413 Differential Calculus	or MATH 2413 or 2313
MATH 2419 Calculus II (Accelerated)	N/A
or MATH 2414 Integral Calculus	or MATH 2414 or 2314
MATH 2418 Linear Algebra	MATH 2418 or 2318
PSY 2301 Introduction to Psychology	PSYC 2301
PSY 2317 Statistics for Psychology	PSYC 2317
or CS 3341 Probability & Statistics in Comp Sci & Software Engr	N/A
Additional Lower-Division Preparatory Courses for AI/Computational Modeling Area:	
CS 2305 Discrete Mathematics for Computing I	MATH 2305
CS 2336 Computer Science II	COSC 2336 or 2436
Additional Lower-Division Preparatory Courses for Neuroscience Area:	
BIOL 2111 Introduction to Modern Biology Workshop I	N/A
BIOL 2281 Introductory Biology Laboratory	N/A
BIOL 2311 Introduction to Modern Biology I	BIOL 1306 or 1406
CHEM 1311/1111 General Chemistry I w/Lab	CHEM 1311/1111 or 1411
CHEM 1312/1112 General Chemistry II w/Lab	CHEM 1312/1112 or 1412
(See UT DALLAS Departmental Advisor for upper-division course requirements)	

III. UT DALLAS ELECTIVE REQUIREMENTS: 24-30 semester credit hours	
Free Electives: 24-30 semester credit hours, depending on concentration.	
Students are encouraged to explore areas of concentration in Cognitive Science, Psychology, and Neuroscience as well as explore interests outside the field.	
Both lower- 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.	
(See UT DALLAS Departmental Advisor)	

A MINIMUM OF 120 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.

COGNITIVE SCIENCE (BS)
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With Concentrations in:
Cognitive-Neuroscience; Human-Computer-Interaction; AI/Computational Modeling

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

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*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	090 Core	4
PSYC 2301	General Psychology	080 Core	3	GOVT 2306	Texas Government	070 Core	3
				COSC 1337 or COSC 1437	Programming Fundamentals II		3
Total Semester Credit Hours			13	Total Semester Credit Hours			16

SOPHOMORE YEAR							
FALL SEMESTER		Core Area	SCH	SPRING SEMESTER		Core Area	SCH
030 Core Course	See UTD Transfer Plan	030 Core	3 or 4	030 Core Course	See UTD Transfer Plan	030 Core	3 or 4
050 Core Course	See UTD Transfer Plan	050 Core	3	040 Core Course	See UTD Transfer Plan	040 Core	3
PSYC 2317	Statistical Methods in Psychology		3	GOVT 2305	Federal Government	070 Core	3
SPCH 1311 or SPCH 1315	Intro to Speech Communication Public Speaking	010/090 Core	3	MATH 2418 or MATH 2318	Linear Algebra		4
COSC 2336 or COSC 2436 or Transfer Elective	Programming Fundamentals III (for AI Concentration) See UTD Transfer Equivalencies		3	MATH 2305 or Transfer Elective	Discrete Mathematics (for AI Concentration) See UTD Transfer Equivalencies		3
Total Semester Credit Hours			15-16	Total Semester Credit Hours			16-17