



School of Behavioral and Brain Sciences  
2010-2012 Transfer Guide for  
Texas Common Course Numbering System

Major: **COGNITIVE SCIENCE**

Degree: **Bachelor of Science (B.S.)**

**UTD Courses**

**TCCNS Courses**

**I. UTD CORE CURRICULUM REQUIREMENTS (42 Semester Hours)**

<b>A. Communication (6 Hours)</b>			
<b>RHET 1302</b>	Rhetoric <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>	<b>ENGL 1302*</b>	<b>010 Core Code</b>
<b>CGS 3340*</b> or <b>PSY 3393*</b>	Empirical Methods in Cognitive Science Experimental Projects in Psychology <i>*(CGS 3340 or PSY 3393, taken at UTD, will satisfy three hours of the communication core curriculum requirement as well as satisfy the upper-division major advanced writing requirement.)</i>	<b>N/A</b> <b>N/A</b>	
<b>B. Social and Behavioral Sciences (15 Hours)</b>			
<b>6 Hours of Government (Texas Legislative Mandate):</b>		<b>Choose one two-course series:*</b>	<b>070 Core Code</b>
<b>GOVT 2301*</b> and <b>GOVT 2302*</b>	Const Found & Pol Beh in US and Texas Political Institutions in US and Texas	<b>GOVT 2301</b> and <b>GOVT 2302</b>	
<b>N/A</b> <b>N/A</b>	American Federal Government Texas Government <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>	<b>or</b> <b>GOVT 2305</b> and <b>GOVT 2306</b>	
<b>6 Hours of American History (Texas Legislative Mandate):</b>		<b>Two of the following:</b>	<b>060 Core Code</b>
<b>HIST 1301</b> <b>HIST 1302</b> <b>HIST 2301</b> <b>N/A</b> <b>N/A</b>	US History Survey to Civil War US History Survey from Civil War History of Texas Mexican-American History I Mexican-American History II	<b>HIST 1301</b> <b>HIST 1302</b> <b>HIST 2301</b> <b>HIST 2327</b> <b>HIST 2328</b>	
<b>3 Hours of Social and Behavioral Sciences Elective:</b>			<b>080 Core Code</b>
<b>PSY 2301*</b>	Introduction to Psychology <i>*(PSY 2301 is a major requirement that will also satisfy the three-hour social and behavioral sciences core curriculum requirement.)</i>	<b>PSYC 2301</b>	
<b>C. Humanities and Fine Arts (6 Hours)</b>			
<b>HUMA 1301</b>	Exploration of the Humanities <i>or other core options:</i> <b>ENGL 2321, ENGL 2322, ENGL 2323, ENGL 2326, ENGL 2327, ENGL 2328, ENGL 2331, ENGL 2332, ENGL 2333, 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.</b>	<b>HUMA 1301</b>	<b>040 Core Code</b>
<b>ARTS 1301</b>	Exploration of the Arts <i>or other core options:</i> <b>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.</b>	<b>ARTS 1301</b>	<b>050 Core Code</b>
<b>D. Mathematics and Quantitative Reasoning (6 Hours)</b>			
<b>See UTD Departmental Advisor for clarification of MATH requirements.</b>			<b>020 Core Code</b>
<b>MATH 2417*</b> and <b>MATH 2419*</b> or <b>MATH 2413*</b> and <b>MATH 2414*</b> and <b>MATH 2415*</b>	Calculus I (Accelerated) Calculus II (Accelerated) Differential Calculus Integral Calculus Calculus of Several Variables <i>*(MATH 2417 and 2419 or MATH 2413 and 2414 and 2415 are major requirements that will also satisfy the six-hour mathematics and quantitative reasoning core curriculum requirement.)</i>	<b>MATH 2314</b> or <b>2414</b> or <b>2417<sup>^</sup></b> and <b>MATH 2315</b> or <b>2415</b> or <b>2419<sup>^</sup></b> or <b>MATH 2313</b> or <b>2413</b> or <b>2513</b> and <b>MATH 2314</b> or <b>2414</b> and <b>MATH 2315</b> or <b>2415</b>	

**^Note:** UTD's accelerated 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 at the community college in order to be equivalent to UTD's Math 2417 and MATH 2419.  
Students should start and complete the entire math sequence either at the community college, or at UTD. Students should complete all prerequisite courses of MATH 1314, MATH 1316, MATH 2312/2412 before enrolling in MATH 2313, or 2413, or 2513, or 2417.

**UTD Courses****TCCNS Courses****E. Science (9 Hours)**

<b>CGS 2301*</b>	Cognitive Science	N/A	<b>030 Core Code</b>
<b>NSC 3361*</b>	Behavioral Neuroscience	N/A	

\*(CGS 2301 and NSC 3361 are required major courses that also satisfy six hours of non-lab science core curriculum requirement.)

**3 Hours Science Elective:**

(Must include at least one course with a **substantial laboratory component.**)

**Core options:**

BIOL 1306-1106, BIOL 1307-1107, BIOL 1308-1108, BIOL 1309-1109, BIOL 1311-1111, BIOL 1313-1113, BIOL 1324-1124, BIOL 1406, BIOL 1407, BIOL 1408, BIOL 1409, BIOL 1411, BIOL 1413, BIOL 1424, BIOL 2206, BIOL 2301-2101, BIOL 2302-2102, BIOL 2304, BIOL 2305, 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, BIOL 2428, CHEM 1305-1105, CHEM 1307-1107, CHEM 1311-1111, CHEM 1312-1112, CHEM 1405, CHEM 1406, CHEM 1407, CHEM 1411, CHEM 1412, CHEM 1413, CHEM 1414, CHEM 1419, CHEM 1420, 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 1301-1101, PHYS 1302-1102, PHYS 1305-1105, PHYS 1307-1107, PHYS 1310-1110, PHYS 1311-1111, PHYS 1312-1112, PHYS 1315-1115, PHYS 1317-1117, PHYS 1401, PHYS 1402, PHYS 1405, PHYS 1407, PHYS 1410, PHYS 1411, PHYS 1412, PHYS 1415, PHYS 1417, PHYS 2325-2125, PHYS 2326-2126, PHYS 2425, PHYS 2426, PHYS 2427.

**II. UTD MAJOR REQUIREMENTS (59-68 Hours) (44-53 hours beyond the Core Curriculum)****Major Preparatory Courses (23 hours):**

<b>CGS 2301</b>	Cognitive Science	N/A
<b>ECS 1337</b>	Computer Science I	<b>COSC 1337 or 1437</b>
<b>MATH 2417</b> and <b>MATH 2419</b>	Calculus I (Accelerated)	<b>MATH 2314 or 2414 or 2417</b> and <b>MATH 2315 or 2415 or 2419</b>
or <b>MATH 2413</b> and <b>MATH 2414</b> and <b>MATH 2415</b>	Differential Calculus Integral Calculus Calculus of Several Variables	or <b>MATH 2313 or 2413 or 2513</b> and <b>MATH 2314 or 2414</b> and <b>MATH 2315 or 2415</b>
<b>MATH 2418</b>	Linear Algebra	<b>MATH 2318 or 2418</b>
<b>PSY 2301</b>	Introduction to Psychology	<b>PSYC 2301</b>
<b>PSY 2317</b>	Statistics for Psychology	<b>PSYC 2317</b>
or <b>CS/SE 3341</b> or <b>STAT 4351</b>	Probability & Statistics in CS & SE Probability	N/A N/A

**Additional Preparatory Courses for AI/Computational Modeling Area (9 hours):**

<b>ECS 2305</b>	Discrete Mathematics for Computing I	<b>MATH 2305 or 2405</b>
<b>ECS 2336</b>	Computer Science II	<b>COSC 2336 or 2436</b>
<b>MATH 2451</b>	Multivariable Calculus with Applications	N/A

**Advanced Upper-Division Major Requirements:**

(See UTD Departmental Advisor)

**III. UTD ELECTIVE REQUIREMENTS (25-44 Hours)****Advanced Electives (6 hours):**

Breadth Electives: Six hours of upper-division courses, or lower-division courses that have prerequisites, that are outside the field of Psychology and not cross-listed with Cognitive Science.

**Free Electives (19-35 hours):**

Students are encouraged to explore areas of concentration in Cognitive Science, Psychology, and Neuroscience as well as explore interests outside the field.

Both lower-division and upper-division courses may be used as electives, but students must complete at least 51 upper-division hours to graduate.

**A MINIMUM OF 120 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 approved by 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>