

# MATHEMATICS (BS)



Specializations: **MATHEMATICS; APPLIED MATHEMATICS; STATISTICS**

## School of Natural Sciences and Mathematics

### 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>

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](mailto:records@utdallas.edu)

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**
<b>I. UT DALLAS CORE CURRICULUM REQUIREMENTS: 42 semester credit hours</b>	
<b>Communication: 6 semester credit hours</b> <span style="float: right;"><b>010 Core Code</b></span>	
Choose 6 semester credit hours from the following: <b>COMM 1311</b> Survey of Oral & Technology-based Communication <b>COMM 1315</b> Public Speaking <b>RHET 1302</b> Rhetoric	<b>SPCH 1311</b> <b>SPCH 1315</b> <b>ENGL 1302*</b> <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>
<b>Mathematics: 3 semester credit hours</b> <span style="float: right;"><b>020 Core Code</b></span>	
<b>MATH 2417*</b> Calculus I (Accelerated) <b>or MATH 2413*</b> 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>	N/A <b>or MATH 2413 or 2313</b>
<b>Life and Physical Sciences: 6 semester credit hours</b> <span style="float: right;"><b>030 Core Code</b></span>	
<b>Mathematics/Applied Mathematics Specialization:</b> <b>PHYS 2325*</b> Mechanics <b>PHYS 2326*</b> Electromagnetism and Waves  <b>Statistics Specialization:</b> <b>PHYS 2325* and PHYS 2326*</b> Mechanics <b>Electromagnetism and Waves</b> <b>or CHEM 1311* and CHEM 1312*</b> General Chemistry I General Chemistry II <i>*(PHYS 2325 and 2326 or CHEM 1311 and 1312 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. Semester credit hours are counted in Core Curriculum.)</i>	<b>PHYS 2325 or 2425</b> <b>PHYS 2326 or 2426</b>  <b>PHYS 2325 or 2425 and</b> <b>PHYS 2326 or 2426</b> <b>or CHEM 1311 or 1411 and</b> <b>CHEM 1312 or 1412</b>
<b>Language, Philosophy, and Culture: 3 semester credit hours</b> <span style="float: right;"><b>040 Core Code</b></span>	
<b>HUMA 1301</b> Exploration of the Humanities	<b>HUMA 1301</b> <i>Or: select 3 semester credit hours from other TCCNS core options:</i> <b>ENGL 2321, ENGL 2322, ENGL 2323, ENGL 2326, ENGL 2327, ENGL 2328,</b> <b>ENGL 2331, ENGL 2332, ENGL 2333, HIST 2311, HIST 2312, HIST 2321, HIST 2322,</b> <b>PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, PHIL 2316.</b>
<b>Creative Arts: 3 semester credit hours</b> <span style="float: right;"><b>050 Core Code</b></span>	
<b>ARTS 1301</b> Exploration of the Arts	<b>ARTS 1301</b> <i>Or: select 3 semester credit hours from other TCCNS core options:</i> <b>ARCH 1301, ARCH 1302, ARTS 1303, ARTS 1304, DANC 1305, DANC 2303,</b> <b>DRAM 1310, DRAM 2361, DRAM 2362, DRAM 2366,</b> <b>HUMA 1315, MUSI 1306, MUSI 1308, MUSI 1309.</b>
<b>American History: 6 semester credit hours</b> <span style="float: right;"><b>060 Core Code</b></span>	
Texas Legislative Mandate Choose two courses from the following: <b>HIST 1301</b> US History Survey to Civil War <b>HIST 1302</b> US History Survey from Civil War <b>HIST 2301</b> History of Texas <b>HIST 2381</b> African-American History	<b>HIST 1301</b> <b>HIST 1302</b> <b>HIST 2301</b> <b>HIST 2381</b>

<b>UT DALLAS REQUIREMENT</b>	<b>TCCNS COURSE EQUIVALENT**</b>
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<b>Government/Political Science: 6 semester credit hours</b>		<b>070 Core Code</b>
Texas Legislative Mandate*		
<b>GOVT 2305</b> American National Government <b>GOVT 2306</b> State and Local Government <i>*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)</i>	<b>GOVT 2305</b> <b>GOVT 2306</b>	
<b>Social and Behavioral Sciences: 3 semester credit hours</b>		<b>080 Core Code</b>
Choose one course from the following:		
<b>CRIM 1301</b> Introduction to Criminal Justice <b>CRIM 1307</b> Introduction to Crime and Criminology <b>ECON 2301</b> Principles of Macroeconomics <b>ECON 2302</b> Principles of Microeconomics <b>PSY 2301</b> Introduction to Psychology <b>PSY 2314</b> Lifespan Development <b>SOC 1301</b> Introduction to Sociology	<b>CRIJ 1301</b> <b>CRIJ 1307</b> <b>ECON 2301</b> <b>ECON 2302</b> <b>PSYC 2301</b> <b>PSYC 2314</b> <b>SOCI 1301</b>	
<i>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.</i>		
<b>Component Area Option: 6 semester credit hours</b>		<b>090 Core Code</b>
<b>MATH 2417*</b> and Calculus I (Accelerated) <b>MATH 2419*</b> Calculus II (Accelerated) or <b>MATH 2413*</b> and Differential Calculus <b>MATH 2414*</b> and Integral Calculus <b>MATH 2415*</b> Calculus of Several Variables <b>PHYS 2125*</b> Physics Lab I or <b>CHEM 1111*</b> General Chemistry Lab I  <i>*(MATH 2417 and 2419, or MATH 2413, 2414, and 2415, and PHYS 2125 or CHEM 1111 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.)</i>	N/A N/A or <b>MATH 2413 or 2313 and</b> <b>MATH 2414 or 2314 and</b> <b>MATH 2415 or 2315</b> <b>PHYS 2125 or lab of 2425</b> or <b>CHEM 1111 or lab of 1411</b>	

<b>II. UT DALLAS MAJOR REQUIREMENTS: 48-49 semester credit hours</b>		
<b>Major Preparatory Courses: 12-13 semester credit hours beyond Core Curriculum</b>		
<b>MATH 2370</b> Introduction to Programming with MATLAB or <b>CS 1325</b> Introduction to Programming or <b>CS 1337</b> Computer Science I <b>MATH 2417 and</b> Calculus I (Accelerated) <b>MATH 2419</b> Calculus II (Accelerated) or <b>MATH 2413 and</b> Differential Calculus <b>MATH 2414 and</b> Integral Calculus <b>MATH 2415</b> Calculus of Several Variables <b>MATH 2418</b> Linear Algebra <b>MATH 2420</b> Differential Equations with Applications	N/A N/A <b>COSC 1337 or 1437</b> N/A N/A or <b>MATH 2413 or 2313 and</b> <b>MATH 2414 or 2314 and</b> <b>MATH 2415 or 2315</b> <b>MATH 2418 or 2318</b> <b>MATH 2420 or 2320</b>	
<b>Major Preparatory Courses for Mathematics/Applied Mathematics Specialization:</b>		
<b>PHYS 2325/2125</b> Mechanics w/lab <b>PHYS 2326/2126</b> Electromagnetism and Waves w/lab	<b>PHYS 2325/2125 or 2425</b> <b>PHYS 2326/2126 or 2426</b>	
<b>Major Preparatory Courses for Statistics Specialization:</b>		
<b>PHYS 2325/2125 and</b> Mechanics w/lab <b>PHYS 2326/2126</b> Electromagnetism and Waves w/lab or <b>CHEM 1311/1111 and</b> General Chemistry I w/lab <b>CHEM 1312/1112</b> General Chemistry II w/lab	<b>PHYS 2325/2125 or 2425 and</b> <b>PHYS 2326/2126 or 2426</b> or <b>CHEM 1311/1111 or 1411 and</b> <b>CHEM 1312/1112 or 1412</b>	
(See UT DALLAS Departmental Advisor for upper-division course requirements)		

<b>III. UT DALLAS ELECTIVE REQUIREMENTS: 29-30 semester credit hour</b>	
<b>Electives: 29-30 semester credit hours</b>	
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.

**MATHEMATICS (BS)**  
**School of Natural Sciences and Mathematics**



**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
<b>ENGL 1301</b>	Composition I	010 Core	3	<b>ENGL 1302</b>	Composition II	010 Core	3
<b>HIST 1301</b>	U.S. History I	060 Core	3	<b>HIST 1302</b>	U.S. History II	060 Core	3
<b>MATH 2413</b> or <b>MATH 2313</b>	Calculus I	020 Core	4	<b>MATH 2414</b> or <b>MATH 2314</b>	Calculus II	020/090 Core	4
<b>PHYS 2325/2125</b> or <b>PHYS 2425</b>	University Physics I w/lab	030/090 Core	4	<b>PHYS 2326/2126</b> or <b>PHYS 2426</b>	University Physics II w/lab	030/090 Core	4
OR <b>CHEM 1311/1111</b> or <b>CHEM 1411</b>	General Chemistry I w/lab (for Statistics Specialization)	030/090 Core		OR <b>CHEM 1312/1112</b> or <b>CHEM 1412</b>	General Chemistry II w/lab (for Statistics Specialization)	030/090 Core	
<b>SPCH 1311</b> or <b>SPCH 1315</b>	Intro to Speech Communication Public Speaking	010/090 Core	3	<b>COSC 1337</b> or <b>COSC 1437</b>	Programming Fundamentals II		3
Total Semester Credit Hours			17	Total Semester Credit Hours			17

SOPHOMORE YEAR							
FALL SEMESTER		Core Area	SCH	SPRING SEMESTER		Core Area	SCH
<b>HUMA 1301</b> or other <b>040 Core Course</b>	Introduction to Humanities I <a href="#">See UTD Transfer Plan</a>	040 Core	3	<b>ARTS 1301</b> or other <b>050 Core Course</b>	Art Appreciation <a href="#">See UTD Transfer Plan</a>	050 Core	3
<b>GOVT 2305</b>	Federal Government	070 Core	3	<b>GOVT 2306</b>	Texas Government	070 Core	3
<b>MATH 2415</b> or <b>MATH 2315</b>	Calculus III	020/090 Core	4	<b>PSYC 2301</b> or other <b>080 Core Course</b>	General Psychology <a href="#">See UTD Transfer Plan</a>	080 Core	3
<b>MATH 2418</b> or <b>MATH 2318</b>	Linear Algebra		4	<b>MATH 2420</b> or <b>MATH 2320</b>	Differential Calculus		4
Total Semester Credit Hours			14	Total Semester Credit Hours			13