

# College of Science and Technology

## B.S. Mathematics

### Biomathematics

#### 2018-2019 Texas Common Course Numbering System Advising Guide



YEAR	FIRST SEMESTER			SECOND SEMESTER		
	TSU Requirement	TCCNS Option	Credit Hours	TSU Requirement	TCCNS Option	Credit Hours
FIRST SEMESTER	ENGL 1301 TSU Core: CAO	ENGL 1301	3	ENGL 1302 TSU Core: Communications	ENGL 1302	3
	MATH 2413 TSU Core: Mathematics*	MATH 2413	4	MATH 2332 (Spring Only)	None	3
	BIOL 1406 TSU Core: Life & Physical Science	BIOL 1406	4	BIOL 1407	BIOL 1407	4
	COSC 1310	COSC 1310	3	MATH 2414	MATH 2414	4
	FYS 1100 TSU Core: CAO	PSYC or EDUC 1100, PSYC or EDUC 1200, PSYC or EDUC 1300	1			
	<b>Total Hours</b>		<b>15</b>	<b>Total Hours</b>		<b>14</b>
YEAR	FIRST SEMESTER			SECOND SEMESTER		
	TSU Requirement	TCCNS Option	Credit Hours	TSU Requirement	TCCNS Option	Credit Hours
SECOND SEMESTER	MATH 3311 (Fall Only)	None	3	MATH 3306	None	3
	MATH 3433	None	4	MATH 3320 (Spring Only)	None	3
	COSC 3344 (Fall Only)	None	3	PHYS 2425 TSU Core: Life and Physical Science	PHYS 2425; PHYS 2325/2125	4
	CHEM 1411	CHEM 1411; CHEM 1311/1111	4	BIOL 3303 & 3103	None	4
				TSU Core: Language, Philosophy, & Culture	See list of approved courses	3
	<b>Total Hours</b>		<b>14</b>	<b>Total Hours</b>		<b>17</b>
YEAR	FIRST SEMESTER			SECOND SEMESTER		
	TSU Requirement	TCCNS Option	Credit Hours	TSU Requirement	TCCNS Option	Credit Hours
THIRD SEMESTER	MATH 3332 (Fall Only)	None	3	MATH 4311 (Spring Only)	None	3
	MATH 4320 (Fall Odd)	None	3	ENGL 3309*	None	3
	GOVT 2305 TSU Core: Government/Political Science	GOVT 2305	3	GOVT 2306 TSU Core: Government/Political Science	GOVT 2306	3
	BIOL 3413 (Fall Only), BIOL 3485, BIOL 4401 (Fall Only), OR BIOL 4445 (Fall Only)	None	4	TSU Core: Creative Arts	See list of approved courses	3
	BIOL 3353*	None	3	BIOL 3407	None	4
	<b>Total Hours</b>		<b>16</b>	<b>Total Hours</b>		<b>16</b>
YEAR	FIRST SEMESTER			SECOND SEMESTER		
	TSU Requirement	TCCNS Option	Credit Hours	TSU Requirement	TCCNS Option	Credit Hours
FOURTH SEMESTER	BIOL 3413 (Fall Only), BIOL 3485, BIOL 4401 (Fall Only), OR BIOL 4445 (Fall Only)	None	4	MATH 3301 (Spring Only), MATH 4306 (Spring Even), MATH 4088, OR MATH 4390 (Spring Odd)	None	3
	MATH 4309* (Fall Only)	None	3	MATH 4332* (Spring Only)	None	3
	MATH 3360 (Fall Even)	None	3	TSU Core: Communication	See list of approved courses	3
	HIST 1301 TSU Core: American History	HIST 1301	3	HIST 1302 TSU Core: American History	HIST 1302	3
				TSU Core: Social & Behavioral Science	See list of approved courses	3
	<b>Total Hours</b>		<b>13</b>	<b>Total Hours</b>		<b>15</b>

\*Designates Writing Intensive Courses

#See University Catalog or Academic Advisor for Applicable Courses

+ See Back Page

Degree Completion: 120 hours

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### Degree Specific

- This 8 semester evaluation is contingent on the successful completion of each class. Please note this evaluation is designed with **prerequisites and course rotation in mind.**
- <sup>+</sup>Placement for Calculus 1 (MATH 2413) is by the CLMPE placement exam, or by college credit for MATH 1316 or MATH 2412. Contact Tarleton's Center for Academic Testing for test information and locations.
- Depending on the rotation of this degree MATH 3360 and MATH 4320 may be taken out of the sequence above and exchanged.
- MATH 4390 Math Topics may be substituted for MATH 3360 Numerical Analysis with department head approval.
- With department head approval, MATH 4086: Statistical Models may substitute for one of the advanced MATH electives.

### Degree Information

- Texas Common Course Numbering System (TCCNS) provides a shared, uniform set of course designations for students and their advisors to use in determining both course equivalency and degree applicability of transfer credit on a statewide basis.  
  
This 120 hour four-year degree plan provides a model for on-time completion of this TSU program using as many TCCNS courses as possible. The four-year plan also shows the first point when no TCCNS options are available for this program. See the current Undergraduate Catalog for course prerequisites. Course availability at TSU is subject to change, and the plan shown may change based on updates to TSU's course offerings.
- **Individual academic programs may require specific courses contained in parts of the University Core Curriculum as prerequisites for certain major requirements.** Students who wish to take courses that will fulfill both core and major requirements simultaneously should check with academic advisors for assistance in selecting core courses.  
  
Students meet the Writing Proficiency Requirement by completing two upper-level Writing Intensive courses in their major or courses designed for their degree program. Contact the Academic Advisor for additional information or questions.
- Residence is satisfied only by official enrollment in and completion of course work applied toward the degree requirements.  
A minimum of 30 semester hours of work must be completed through upper level courses (3000 or 4000 level) delivered by Tarleton and 12 of these advanced hours must be in the major.
- How does duplicating a course impact my GPA?  
A student may take a course a second or subsequent time at the same institution. The highest grade will be included in the GPA calculation.
- Can I take a course at another school and transfer it back to TSU?  
If you plan to take a course at another school and transfer it back to TSU, you need to meet with both an advisor and Transfer Services. An advisor can tell you the correct course number to take and assist with completion of a Concurrent Enrollment Form if needed.