

## The University of Texas at Tyler

### COLLEGE OF ARTS AND SCIENCES

#### Bachelor of Science – Mathematics

The Bachelor of Science in Mathematics prepares students for careers in the many areas where quantitative and logical problem solving skills are necessary, such as education, business, industry, government, and other math intensive fields. The degree also prepares students for graduate studies in the mathematical sciences.

+ Consult with your advisor for additional information on degree requirements, schedule planning, and selection of minor.

## Recommended 4-Year Curriculum

For students ready for Calculus I

### FRESHMAN YEAR

Fall Semester		Credit Hours	Spring Semester		Credit Hours
		Core Communication 1*			3
MATH	2413	Calculus I	MATH	2414	4
PHIL	2303	Intro. To Logic			3
_____	_____	Core Social/Behavior Science*	MATH	3380	3
_____	_____	Core Human Expression*	_____	_____	3
		<b>Total Semester Hours</b>			<b>16</b>

### SOPHOMORE YEAR

MATH	3404	Multivariate Calculus	4	MATH	3336	Abstract Algebra I	3
MATH	3425	Foundations of Mathematics	4	MATH	3305	Ordinary Differential Equations	3
MATH	3315	Linear Algebra and Matrix Theory	3			Minor or Elective Course(s)	6
HIST	1301	U.S. History I	3	HIST	1302	U.S. History II	3
		<b>Total Semester Hours</b>	<b>14</b>			<b>Total Semester Hours</b>	<b>15</b>

### JUNIOR YEAR

MATH	3345	Real Analysis I	3	MATH	3373	Nonlinear ODE	3
MATH	4350	Theory of Probability	3	MATH	_____	Upper Level Math Elective(s)	3
POLS	2305	Introductory American Govt.	3	POLS	2306	Introductory Texas Politics	3
PHYS	2325/2125	U. Physics 1 w/ Lab	4	PHYS	2326/2126	U. Physics 2 w/ Lab	4
_____	_____	Minor or Elective Course(s)	3	_____	_____	Minor or Elective Course(s)	3
		<b>Total Semester Hours</b>	<b>16</b>			<b>Total Semester Hours</b>	<b>16</b>

### SENIOR YEAR

MATH	4160	Senior Seminar 1	1	MATH	4161	Senior Seminar 2	1
MATH	_____	Upper Level Math Elective	3	MATH	_____	Upper Level Math Elective	3
MATH	_____	Upper Level Math Elective	3	_____	_____	Minor or Elective Course(s)	10
_____	_____	Minor or Elective Course(s)	6				
		<b>Total Semester Hours</b>	<b>13</b>			<b>Total Semester Hours</b>	<b>14</b>

Total hours must equal at least 120 hours.

#### NOTES:

\*See Course Catalogue for Core options in selected categories. For the STEM course, do not select Physics 1 or 2.

\*\*Students may select a minor to accompany their math degree.

\*\*\*See the Mathematics Degree Checklist for Upper Level Math Elective options.

\*\*\*\*Every student should consult the academic requirements section of [my.uttyler.edu](http://my.uttyler.edu) to confirm general university requirements (in residence hours, total hours, upper division elective hours, etc.).