

# MATHEMATICS (BS) - GENERAL TRACK

## Program Map

Course	Title	Credit Hours
<b>First Year</b>		
<b>Fall</b>		
MATH 1113	Pre-Calculus (minimum grade of C)	4
(Apply 3 credits to the area of Mathematics and Quantitative Skills and 1 credit to Program Requirements.)		
ENGL 1101	English Composition I (minimum grade of C)	3
Technology, Mathematics, and Sciences	Lab Science	4
Institutional Priorities	COMM 1110 Public Speaking or Foreign Language	3
Social Sciences	Behavioral Science	3
<b>Credit Hours</b>		<b>17</b>
<b>Spring</b>		
MATH 1131	Calculus with Analytic Geometry I (minimum grade of C)	4
ENGL 1102	English Composition II (minimum grade of C)	3
STAT 1401	Elementary Statistics (minimum grade of C)	3
CPSC 1301K	Computer Science I (minimum grade of C)	4
(Apply 3 credits to Field of Studies Requirements and 1 credit to Program Requirements.)		
Institutional Priorities	ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2)	1
<b>Credit Hours</b>		<b>15</b>
<b>Second Year</b>		
<b>Fall</b>		
MATH 1132	Calculus with Analytic Geometry II (minimum grade of C) <sup>1</sup>	4
MATH 2125	Introduction to Discrete Mathematics (minimum grade of C)	3
MATH 2115	Introduction to Linear Algebra (minimum grade of C)	3
Arts, Humanities, and Ethics	Humanities Course <sup>2</sup>	3
Social Sciences	World Cultures	3
<b>Credit Hours</b>		<b>16</b>
<b>Spring</b>		
MATH 3107	Differential Equations (minimum grade of C)	3
MATH 3155	Introduction to Mathematical Proofs (minimum grade of C)	3
MATH 3175	Introduction to Probability (minimum grade of C)	3

Arts, Humanities, and Ethics	Fine Arts Course	3
MATH 2135	Calculus with Analytic Geometry 3 (minimum grade of C)	4
<b>Credit Hours</b>		<b>16</b>

### Third Year

#### Fall

POLS 1101	American Government	3
MATH 5151U	Introduction to Real Analysis I (minimum grade of C)	3
MATH 5175U	Mathematical Statistics (minimum grade of C)	3
Technology, Mathematics, and Sciences	Lab Science	4
KINS 1106 or PHED 1205	Lifetime Wellness or Concepts of Fitness	2
Health and Wellness	PEDS elective	1
<b>Credit Hours</b>		<b>16</b>

#### Spring

MATH 5111U	Introduction to Abstract Algebra I (minimum grade of C)	3
Program Electives	Program Elective (minimum grade of C)	3
Program Electives	Program Elective (minimum grade of C)	3
General Electives	General Elective <sup>3</sup>	3
General Electives	Upper Level General Elective <sup>3</sup>	3
<b>Credit Hours</b>		<b>15</b>

### Fourth Year

#### Fall

MATH 4795	Senior Seminar in Mathematics (minimum grade of C)	3
Program Electives	Program Elective (minimum grade of C)	3
General Electives	General Elective <sup>3</sup>	1
General Electives	General Elective <sup>3</sup>	3
General Electives	Upper Level General Elective <sup>3</sup>	3
<b>Credit Hours</b>		<b>13</b>

#### Spring

General Electives	Upper Level General Elective <sup>3</sup>	3
General Electives	General Elective <sup>3</sup>	3
General Electives	General Elective <sup>3</sup>	3
General Electives	General Elective <sup>3</sup>	3
HIST 2111 or HIST 2112	U. S. History to 1865 or U. S. History since 1865	3
<b>Credit Hours</b>		<b>15</b>

### Total Credit Hours 123

<sup>1</sup> If MATH 1132 is used in Technology, Mathematics, and Sciences, then one extra hour will count in Field of Studies Requirements.

<sup>2</sup> ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics recommended for the UTeach program.

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<sup>3</sup> If an elective course is taken to complete the UTeach program or minor, then a C or better is required.

**The student needs to work with his/her advisor to choose appropriate elective courses to make sure that he/she meets the total hours required for the program (123 or 125-128 with UTeach).**