

MATHEMATICS (BS)

Program Map

Course	Title	Credit Hours
First Year		
Fall		
MATH 1113	Pre-Calculus (minimum grade of C) (Apply 3 credits to Area A and 1 credit to Area G.)	4
ENGL 1101	English Composition I (minimum grade of C)	3
AREA D	Lab Science	4
Area B1	COMM 1110 Public Speaking or Foreign Language	3
AREA E	Behavioral Science	3
Credit Hours		17
Spring		
MATH 1131	Calculus with Analytic Geometry I (minimum grade of C) (Apply 3 credits to Area D and 1 credit to Area F.)	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) (Apply 3 credits to Area F and 1 credit to Area G.)	4
Area B2	ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2)	1
Credit Hours		15
Second Year		
Fall		
MATH 1132	Calculus with Analytic Geometry II (minimum grade of C) ¹	4
MATH 2125	Introduction to Discrete Mathematics (minimum grade of C)	3
MATH 2115	Introduction to Linear Algebra (minimum grade of C)	3
AREA C	Humanities Course ²	3
AREA E	World Cultures	3
Credit Hours		16
Spring		
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
AREA C	Fine Arts Course	3
MATH 2135	Calculus with Analytic Geometry 3 (minimum grade of C)	4
Credit Hours		16

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
AREA D	Lab Science	4
KINS 1106 or PHED 1205	Lifetime Wellness or Concepts of Fitness	2
PEDS		1
Credit Hours		16

Spring

MATH 5111U	Introduction to Abstract Algebra I (minimum grade of C)	3
AREA H	Program Elective (minimum grade of C)	3
AREA H	Program Elective (minimum grade of C)	3
AREA I	General Elective ³	3
AREA I	Upper Level General Elective ³	3
Credit Hours		15

Fourth Year

Fall

MATH 4795	Senior Seminar in Mathematics (minimum grade of C)	3
AREA H	Program Elective (minimum grade of C)	3
AREA I	General Elective ³	1
AREA I	General Elective ³	3
AREA I	Upper Level General Elective ³	3
Credit Hours		13

Spring

AREA I	Upper Level General Elective ³	3
AREA I	General Elective ³	3
AREA I	General Elective ³	3
AREA I	General Elective ³	3
HIST 2111 or HIST 2112	U. S. History to 1865 or U. S. History since 1865	3
Credit Hours		15

Total Credit Hours **123**

¹ If MATH 1132 is used in Area D, the one extra hour will count in Area F.

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

³ 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).