

MATHEMATICS

B.S. in Mathematics

Course	Number		Credit Hours
I. CORE CURRICULUM (62 semester hours)			
AREA A Essential Skills (9 hours)			
ENGL	1101	English Composition I	3
ENGL	1102	English Composition II	3
MATH	1113	Precalculus Mathematics	3
AREA B Institutional Options (4 semester hours)			
COMM	1110	Fundamentals of Speech	3
Elective		BIOL 1001, COMM 1120, ENGL 1105, 1110, HIST 1050, 1051, HUMN 1000, 1100, PHED 1030, SOCI 1000	1
AREA C Humanities/Fine Arts (6 semester hours)			
Electives		ENGL 1201, 2111, 2112, 2120, 2121, 2130, 2131; HUMN 1201, MUSC 1100, or THEA 1100	6
AREA D Science/Mathematics/Technology (12 semester hours)			
MATH	2253	Calculus & Analytical Geometry I	4
Laboratory Science Sequence		BIOL 1107K and 1108K, or CHEM 1211 and 1212, or PHYS 1111K and 1112K, or PHYS 2211K and 2112K	8
AREA E Social Sciences (12 semester hours)			
HIST	2111 or 2112	United States History	3
POLS	1101	American Government	3
Electives		ANTH 1103, ECON 2105, 2106, GEOG 1100, 1101, or 1111, HIST 1111, 1112, 2111, 2112, PHIL 1101, 1102, 1103, POLS 2101, 2201, 2301, 2401, PSYC 1101, 2101, 2103, 2204, 2250, SOCI 1101, 1160	6
AREA F Major Related (18 semester hours)			
MATH	2254	Calculus and Analytic Geometry II	4
MATH	2255	Calculus and Analytic Geometry III	4
MATH	2256	Introduction to Linear Algebra	3
MATH	2403	Differential Equations	4
CMPS	1301	Principals of Programming I	3
PHYSICAL EDUCATION (1 semester hour)			
PHED		Activity Elective	1
II. UPPER LEVEL COURSES			
Common (28 semester hours)			
MATH	3101	Introduction to Advanced Mathematics	3
MATH	3201	Geometry	3
MATH	3301	Combinatorics	3

MATH	3401	Linear Algebra	3
MATH	4101	Abstract Algebra I	3
MATH	4201	Number Theory	3
MATH	4301	Graph Theory	3
MATH	4701	Probability and Statistics I	3
MATH	4601	Real Analysis	4
Specific (31 semester hours)			
MATH	4401	Operations Research	3
MATH	4511	Numerical Analysis I	3
MATH	4512	Numerical Analysis II	3
MATH	4602	Real Analysis II	3
MATH	4702	Probability and Statistics II	3
Electives		CHEM 1211, 1212, 2211, 2212, *PHYS 2211, 2212, ENGR 2205, MATH 4502, CMPS 1302, 1371	10

* Students who use PHYS 1111 and 1112 in Area D cannot use PHYS 2211 or 2212 as electives.