

Mathematics AS

Learning Outcomes

- Students will be prepared for the mathematical reasoning required in upper division work in their major, including the ability to generalize concepts and comprehend increasing levels of abstraction.
- Students will demonstrate mathematical literacy, problem solving ability, and modeling ability.

Recommended Course Sequence

Fall Semester				
Course	Title	Units	GE Area	
ENGL 101	English Composition	3	Language & Rationality	
MATH 211	Calculus I	5	Major/Language & Rationality	
PHYSIC 110	General Physics I	4	Natural Science	
COMS 105	Fundamental of Public Speaking	3	Humanities	

Spring Semester				
Course	Title	Units	GE Area	
MATH 212	Calculus II	5	Major	
ECON 201	Macroeconomics	3	Social Science	
PHILOS 101	Introduction to Philosophy	3	Humanities	
HLHSCI 100	Health Education	3	Health and Wellness	
SOCI 101	Introduction to Sociology	3	Elective	

Fall Semester				
Course	Title	Units	GE Area	
MATH 213	Calculus III	5	Major	
CMPSCI 111	Introduction to Algorithms	3	Major Option	
CMPSCI 111L	Introduction to Algorithms Lab	1		
HIST 111 or 112	U.S. History	3	American Institutions	
ANTHRO 101	Physical Anthropology	3	Natural Science	

Spring Semester				
Course	Title	Units	GE Area	
MATH 214	Linear Algebra	3	Major-recommended elective	
MATH 215	Differential Equations	4	Major-recommended elective	
PHILOS 230	Symbolic Logic	3	Recommended elective	
POLISC 150	Introduction to American Government and Politics	3	American Institutions	
ART 110	Art History: Ancient to Medieval	3	Recommended Elective	

Notes: *In order to complete in two years a minimum of 15 units per semester is necessary. This sequence presumes entering college ready in English and mathematics*