

Mathematics Curriculum (120 Credit Hours)

Freshman Year (28)							
First Semester	Class	Hrs.		Second Semester	Class	Hrs.	
EN 111	Composition I	3		EN 112	Composition II	3	
AR 214	Art Appreciation	3		PY 111	Physical Science I	3	
MA 181	Calculus I w/Ana. Geom.	4		MA 182	Calculus II w/Ana. Geom.	4	
SS 111	Social Institutions	3		CS 202	Programming in C++ I	3	
CS 100	Info. Tech. Proficiency	1					
UL 101	University Life	1					
	TOTAL	15			TOTAL	13	
Sophomore Year (32)							
CS 203	Programming in C++ II	3		MA 220	Number Theory	3	
EN 213	Introduction to Literature	3		MA 283	Calculus III	3	
MA 203	Foundations of Math	3		EC 201	Principles of Economics	3	
MA 401	Vector Analysis	3		HI 111	World Civilization	3	
PY 217	General Physics (Calculus)	3		SA 223	Oral Communication	3	
PY 217L	General Physics Lab	1		ND 101	Health and Wellness	1	
	TOTAL	16			TOTAL	16	
Junior Year (30)							
MA 336	Math Modeling	3		MA 304	Discrete Math	3	
MA 348	Differential Equations	3		MA 346	Linear Algebra	3	
MA 445	Scientific Computation	3		MA 370	Operation Research	3	
_____	Elective (MA 334 College Geometry)	3		_____	Elective(MA 335 History of Math)	3	
_____	Elective (MA 369 Probability & Statistics or MA 377 Statistics I)	3		_____	Elective (MA368 Math Statistics or MA 378 Statistics II)	3	
	TOTAL	15			TOTAL	15	
Senior Year (30)							
MA 306	Real Number System	3		MA 408	Advanced Calculus	3	
MA 412	Complex Variables	3		MA 444	Numerical Analysis	3	
MA 443	Modern Algebra	3		MA 470	Research Project I	3	
_____	Elective (MA 472 Data Analysis or CS 486 Data Mining and Machine Learning,)	3		_____	Elective (CS 380 Python Programming)	3	
_____	Elective (unrestricted)	3		_____	Elective (unrestricted)	3	
	TOTAL	15			TOTAL	15	