

BA/BS in Mathematics

2015 - 2016



GENERAL EDUCATION REQUIREMENTS minimum 30 credits

	Requirement	Course	CR	Prerequisites & Notes	Grade	Semester
<input type="checkbox"/>	Computer Literacy	CIS 1200 <i>or</i> CIS 1201 <i>or</i> (CS 1400 and CS 1410)	0-6			
<input type="checkbox"/>	English	ENGL 1010 <i>or</i> ENGL 1010A <i>or</i> ENGL 1010D	0-4	English and Reading plcmnt scores; pre/corequisite LIB 1010		
<input type="checkbox"/>	English	ENGL 2010 <i>or</i> ENGL 2010A	3	ENGL 1010/A/D (C or higher) or ACT \geq 28; pre/corequisite LIB 1010		
<input type="checkbox"/>	Information Literacy	LIB 1000 <i>or</i> LIB 1010	0-1	English placement score for class		
<input type="checkbox"/>	Mathematics	<i>recommended: MATH 1210</i>	3-5	Math placement score or MATH prerequisite		
<input type="checkbox"/>	American Institutions		3-6	Reading placement score		
<input type="checkbox"/>	Life Sciences		3-10			
<input type="checkbox"/>	Physical Sciences	<i>recommended: PHYS 2210</i>	3-5			
<input type="checkbox"/>	Laboratory Science	<i>recommended: PHYS 2215</i>	0-1			
<input type="checkbox"/>	Fine Arts		3			
<input type="checkbox"/>	Literature / Humanities		3			
<input type="checkbox"/>	Social & Behavioral Sciences		3			
<input type="checkbox"/>	Exploration		3-5	3-5 credits, prefix not used in other GE		
<input type="checkbox"/>	Global & Cultural Perspectives		0-3	- Complete two with different prefixes		
<input type="checkbox"/>	Global & Cultural Perspectives		0-3	- Can share credit with other GE		
<input type="checkbox"/>	Foreign Language (for Bachelor of Arts)	Complete 16 credits in a single foreign language (by coursework or vertical credit); OR foreign language 2020 or 3060 class (\geq C); OR foreign language 1020 class (\geq C) and 12 credits FLATS/FL-GE in another language; OR nonnative speakers may use ESL test or specific course(s). ASL cannot be used to fulfill the BA foreign language requirement in this major.				

OR

Associate of Arts or Associate of Science degree Date: USHE? Y / N

MATHEMATICS CORE REQUIREMENTS 36 credits

	Course Number	Description	CR	Prerequisites & Notes	Grade	Semester
<input type="checkbox"/>	MATH 1210	Calculus I	5	See Catalog; <i>GE: Mathematics</i>		
<input type="checkbox"/>	MATH 1220	Calculus II	4	MATH 1210 (C or higher); <i>GE: Math</i>		
<input type="checkbox"/>	MATH 2200	Discrete Mathematics	3	MATH 1210 (C or higher)		
<input type="checkbox"/>	MATH 2210	Multivariable Calculus	3	MATH 1220 (C or higher)		
<input type="checkbox"/>	MATH 2270	Linear Algebra	3	MATH 1210 (C or higher)		
<input type="checkbox"/>	MATH 2280	Ordinary Differential Equation	3	MATH 1220 (C or higher)		
<input type="checkbox"/>	MATH 3200	Introduction to Analysis I	3	MATH 2200 & MATH 2210 (both \geq C)		
<input type="checkbox"/>	MATH 3400	Probability & Statistics	3	MATH 1220 (C or higher)		
<input type="checkbox"/>	MATH 3900	Number Theory	3	MATH 2200		
<input type="checkbox"/>	MATH 4000	Foundations of Algebra	3	MATH 2200		
<input type="checkbox"/>	MATH 4900	Senior Capstone Seminar	3	Senior Standing & Mathematics major		

MATHEMATICS ELECTIVES 12 credits

Complete 12 credits from the following:

<input type="checkbox"/>	MATH 3000	History of Mathematics	3	MATH 1220 (C or higher)		
<input type="checkbox"/>	MATH 3100	Euclidean / Non-Euclidean Geom	3	MATH 2200 (C or higher)		
<input type="checkbox"/>	MATH 3210	Introduction to Analysis II	3	MATH 3200		
<input type="checkbox"/>	MATH 3500	Numerical Analysis	3	MATH 2270 and MATH 2280		

