Bachelor of Science in Mathematics -- 120 Credits

Applied Track
JMATH-BS/JMAPPLIED (RG 389)
Effective August 2023

GENERAL EDUCATION REQUIREMENTS

REQUIRED COURSES (RG 6813)

REQUIRED COCKOES (NO 5010)					
Foundational Courses			CR	Satisfie	d/Term
Engcmp 0005	Composition I		3		
Engcmp 0006	Composition II		3		
CommRc 0052	Public Speaking		3		
Basic Algebra	or Placement Test				
Math 0001	Algebra 1		3		
Quantitative Re	easoning (QR) - 1	Course			
Note - a student cannot test out of their QR requirement.					

FREE ELECTIVES

graduation (120) that are not used to satisfy co knowledge areas, major requirements, electives			
related area required by the department.			
	CR	Satisfie	d/Term

Free electives are the balance of credits required for

WORLDS OF KNOWLEDGE (RG 6825)

Aesthetic and Creative Expression (RQ 3148)								
Subject	Number	Course Title	CR Satisfied/Te		d/Term			
			3					
			3					

Societies & Civics (RQ 3150)					
Subject	Number	Course Title	CR Satisfied/Term		
			3		
			3		
			•	•	

	•				
Follow-Up (Courses	(RQ 3154)			
Subject	Number	Course Title	CR	Satisfied/Term	
			3		
			3		

Each student must take 2 courses in each World of Knowledge. The two courses taken within each World must be from different subjects. A student must take two additional "Follow-Up" courses from any World.

>The minimum number of courses taken in the Worlds must be 10.

>The Follow-Up courses may repeat a subject previously taken in a World.

>A student cannot use a major required Subject course in one of the Worlds.

>For example: A Biology student cannot use BIOL 0110 to fulfill a requirement in the Science and Nature World.

>Students cannot use a course to count both in their QR requirement and one of the Worlds.

Students can choose QR and Worlds of Knowledge courses from published course lists.

MAJOR REQUIREMENTS (RG 389)

Required Math Courses (RQ 3560)			Satisfie	d/Term
Math 0221	Analytic Geom & Calc 1	4		
Math 0231	Analytic Geom & Calc 2	4		
Math 0241	Analytic Geom & Calc 3	4		
Math 0401	Discrete Math Structures	3		
Math 1012	Intro Theoretical Math	3		
Requirement Satisfied				

(RQ 3561)

Required	Upper Level Math Courses	CR	Satisfied/Term
Math 1153	Intro Probability Stats 1	3	
Math 1154	Intro Probability Stats 2	3	
Math 1163	Mathematics Seminar	1	
Math 1181	Linear Algebra 1	3	
Math 1271	Ordinary Diff Equations 1	3	
Requirement Satisfied			

Required	Required Comp Sci Courses (RQ 3562)		Satisfie	d/Term
CS 0100	Perspectives in Comp Science	3		
CS 0410	Intro to CS Applications	1		
CS 0411	Intro to CS Programming	3		
Requirement Satisfied				

MGPA (RQ 1064) Major 50% (RQ 2880)

IMPORTANT INFORMATION:

This sheet is an unofficial representation of the major requirements and the information is subject to change. It is not an official record of academic progress and should not be treated as such. Official degree information can only be obtained through the Division Office or the Office of the Registrar.

Updated 04/02/24

Math Electives (RQ 1056)					
Select one	Select one of the following courses			d/Term	
Math 1125	Abstract Algebra	3			
Math 1531	Advanced Calculus 1	3			
Math 1561	Complex Variables & Apps	3			
Math 1701	Intro to Topology	3			
Select one	of the following courses	CR	Satisfie	d/Term	
Math 1071	Numerical Math Analysis	3			
Math 1175	Topics in Applied Math	3			
Math 1178	Operations Research	4			
Math 1179	Math Modeling	3			
Math 1296	Topics in Applied Stats 1	3			
Select any	2 Math 1000 level courses				
(Except Ma	th 1035)				
		CR	Satisfied/Term		
Math		3			
Math	·	3			
Requireme	12-13				

Minor or Certificate Requirement (18-21 Credits) Select a minor or certificate program from outside Mathematics. (RQ 3563)						
	CR	Satisfie	d/Term			
	,					
Requirement Satisfied	18-21					

Global History & Culture (RQ 3149)
Subject Number Course Title

Number Course Title

Persp. In CS

Science & Nature (RQ 3153)

0100

Subject

Satisfied/Terr

CR Satisfied/Term

3