

Bachelor of Science in Mathematics -- 120 Credits

Actuarial Track
JMATH-BS/JMACTURIL (RG 390)
Effective August 2023

GENERAL EDUCATION REQUIREMENTS

REQUIRED COURSES (RG 6813)

Foundational Courses	CR	Satisfied/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 Reasoning (QR) - 1 Course		
<i>Note - a student cannot test out of their QR requirement.</i>		
	3	

WORLDS OF KNOWLEDGE (RG 6825)

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

Global History & Culture (RQ 3149)				
Subject	Number	Course Title	CR	Satisfied/Term
ECON	0115	Intro to Macroeconomics	3	
			3	

Societies & Civics (RQ 3150)				
Subject	Number	Course Title	CR	Satisfied/Term
ECON	0105	Intro to Microeconomics	3	
			3	

Science & Nature (RQ 3153)				
Subject	Number	Course Title	CR	Satisfied/Term
CS	0100	Persp. In CS	3	
			3	

FREE ELECTIVES

Free electives are the balance of credits required for graduation (120) that are not used to satisfy competencies, knowledge areas, major requirements, electives, or any related area required by the department.		
	CR	Satisfied/Term

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 390)

Required Math (RQ 3564)			CR	Satisfied/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		18		

CS Requirements (RQ 3567)			CR	Satisfied/Term
CS 0100	Persp in Comp Science	3		
CS 0410	Intro to CS Applications	1		
CS 0411	Intro to CS Programming	3		
Requirement Satisfied		7		

Business Electives (RQ 3569)			CR	Satisfied/Term
Select two of the following courses			CR	Satisfied/Term
Acct 1110	Cost Accounting Concepts	3		
Fin 1330	Fin Statement Analysis	3		
Econ 0281	Intro to Money & Banking	3		
Econ 1141	Economic Forecasting	3		
Econ 1151	Financial Economics	3		
Acct 1270	Financial Reporting	3		
Fin 1310	Investments	3		
Fin 1355	Financial Modeling	3		
Acct 1356	Capital Budgeting	3		
Requirement Satisfied		6		

Required Upper Level Math (RQ 3565)			CR	Satisfied/Term
Math 1153	Intro to Probability Stats 1	3		
Math 1154	Intro to Probability Stats 2	3		
Math 1163	Mathematics Seminar 1	1		
Math 1164	Mathematics Seminar 2	1		
Math 1181	Linear Algebra 1	3		
Math 1271	Ord Differential Equations	3		
Requirement Satisfied		14		

Math Electives (RQ 1058)			CR	Satisfied/Term
Select one of the following courses			CR	Satisfied/Term
Math 1125	Abstract Algebra	3		
Math 1531	Advanced Calculus 1	3		
Math 1561	Complex Vari & Apps	3		
Math 1701	Intro to Topology	3		
Select one of the following courses			CR	Satisfied/Term
Math 1071	Numerical Math Anal	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			CR	Satisfied/Term
Math		3		
Math		3		
Requirement Satisfied		12-13		

MGPA (RQ 1065)
Major 50% (RQ 2882)

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.

Reviewed 3/5/2025