

# Bachelor of Science in Mathematics -- 120 Credits

Actuarial Track  
JMATH-BS/JMACTURIL (RG 390)

## GENERAL EDUCATION REQUIREMENTS

### REQUIRED COURSES (RG 6813)

Foundational Courses	CR	Satisfied/Term
Engcmp 0003 or 0005	3	
Engcmp 0004 or 0006	3	
CommRc 0052 Public Speaking	3	
<b>Basic Algebra or Placement Test</b>		
Math 0001 Algebra 1	3	
<b>Quantitative Reasoning (QR) - 1 Course</b>		
<i>Note - a student cannot test out of their QR requirement.</i>		
	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

### WORLDS OF KNOWLEDGE (RG 6825)

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

Global History & Culture (RQ 3149)				
Subject	Number	Course Title	CR	Satisfied/Term
			3	
			3	

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

**NOTE:** To be admitted to the actuarial science option students must have earned a minimum GPA of 3.35 in the following math courses: 0221, 0231, 0241, 0401 and 1012.

(RQ 3564)

Require Math	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	
<b>Requirement Satisfied</b>	<b>18</b>	

(RQ 3567)

CS Requirements	CR	Satisfied/Term
CS 0100 Persp in Comp Science	3	
CS 0410 Intro to CS Applications	1	
CS 0411 Intro to CS Programming	3	
<b>Requirement Satisfied</b>	<b>7</b>	

(RQ 3569)

Business Electives		
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	
<b>Requirement Satisfied</b>	<b>6</b>	

(RQ 3565)

Required Upper Level Math	CR	Satisfied/Term
Math 1019 Tech Speaking in Math	3	
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	
<b>Requirement Satisfied</b>	<b>17</b>	

(RQ 1058)

Math Electives		
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	
<b>Select one of the following courses</b>	<b>CR</b>	<b>Satisfied/Term</b>
Math 1071 Numerical Math Anal	3	
Math 1175 Topics in Applied Math	3	
Math 1178 Operations Research	4	
Math 1296 Topics in Applied Stats 1	3	
<b>Select any 2 Math 1000 level courses</b>	<b>CR</b>	<b>Satisfied/Term</b>
Math	3	
Math	3	
<b>Requirement Satisfied</b>	<b>12-13</b>	

(RQ 3565)

Required Business Courses	CR	Satisfied/Term
Acct 0115 Accounting Principles	3	
Fin 0300 Principles of Finance	3	
Econ 0105 Intro to Microeconomics	3	
Econ 0115 Intro to Macroeconomics	3	
<b>Requirement Satisfied</b>	<b>12</b>	

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.

Updated 6/4/18