

BACHELOR OF SCIENCE IN MATHEMATICAL SCIENCES

Catalogue

Major: MATHEMATICS

2021-2022

Student: _____

Date: _____

netID: _____

Advisor: _____

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
CEMS 050 - CEMS First Year Seminar	1		QR: MATH 022 - Calculus II	4	
QR: CS 021 - Computer Programming I	3		QR: MATH 052 - Fundamentals of Mathematics	3	
QR: MATH 021 - Calculus I	4		FWIL (ENGS 001, TAP, HCOL 085) ¹	3	
Humanities & Social Science Course ¹	3		Humanities & Social Science Course ¹	3	
Allied Field Course ²	3		Free Elective	3	
<i>Total credits</i>	<i>14</i>		<i>Total credits</i>	<i>16</i>	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
QR: MATH 121 - Calculus III	4		Major Course ³ (1XX)	3	
Allied Field Course ² (with lab)	4		Major Course ³ (1XX)	3	
Allied Field Course ²	3		Allied Field Course ²	3	
Humanities & Social Science Course ¹	3		Humanities & Social Science Course ¹	3	
QR: MATH 122 or 124 - (Applied) Linear Algebra	3		Free Elective	3	
<i>Total credits</i>	<i>17</i>		<i>Total credits</i>	<i>15</i>	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
QR: MATH 241 - Analysis in Several Real Vars I	3		Major Course ³ (1XX)	3	
QR: MATH 251 - Abstract Algebra I	3		Major Course ³ (2XX)	3	
Humanities & Social Science Course ¹	3		Allied Field Course ²	3	
Allied Field Course ²	3		Humanities & Social Science Course ¹	3	
Free Elective	3		Humanities & Social Science Course ¹	3	
<i>Total credits</i>	<i>15</i>		<i>Total credits</i>	<i>15</i>	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
Major Course ³ (2XX)	3		Major Course ³ (2XX)	3	
Major Course ³ (2XX)	3		Allied Field Course ² (1XX)	3	
Allied Field Course ² (1XX)	3		Free Elective	3	
Free Elective	3		Free Elective	3	
Free Elective	4				
<i>Total credits</i>	<i>16</i>		<i>Total credits</i>	<i>12</i>	

Minimum Total Credits Required for Degree: 120

1. Humanities & Social Sciences: Twenty-four credits of courses selected from Categories I, II, and III listed in the Catalogue (I: Language & Literature, II: Humanities & Fine Arts, III: Social Sciences). See Catalogue for full list of courses. Students are encouraged to use these courses to fulfill the University Requirements - Diversity (D1/D2), Sustainability (SU), and Foundational Writing & Information Literacy (FWIL). Note the Quantitative (QR) reasoning is fulfilled by core requirements.
2. Allied Field Courses: Twenty-four credits selected from the list of Allied Fields outlined in the Catalogue, including at least one laboratory experience in science or engineering. Of these twenty-four credits, at least six must be in courses numbered 100 or above, and at least six must be taken in fields 1 to 5. Refer to Catalogue for complete list.
3. Major Courses: A minimum of twenty-one additional credits in mathematics, statistics, or computer science courses numbered 100 or above. At least twelve credits must be in courses numbered 200 or above and no more than twelve credits can be taken in computer science.

This document is an advising tool and should be used in combination with a student's degree audit, as well as the published Catalogue for 2021-2022 found at <http://catalogue.uvm.edu/>