BACHELOR OF SCIENCE IN MATHEMATICAL SCIENCES - MATHEMATICS **Catalogue**

Student:	Date:	**2025 - 2026**
netID:	Advisor:	

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
MA: MATH 1234 - Calculus I*	4		MA: MATH 1248 - Calculus II* *MATH 1234*	4	
QD: CS 1210 - Computer Programming I	3		MA: MATH 2055 - Fundamentals of Mathematics* *MATH 1234*	3	
STAT 1410 - Basic Statistical Methods 1 **OR** MA: STAT 2430 - Statistics for Engineering *MATH 1234*	3		Catamount Core (WIL1): ENGL 1001 - Written Expression	3	
CEMS 1500 - CEMS First Year Seminar	1		Catamount Core (D1 Diversity 1)	3	
Catamount Core (AH Arts & Humanities)	3		Minor Course	3	
Total credits	*14*		*Total credits*	*16*	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
MA: MATH 2248 - Calculus III *MATH 1248*	4		Major Course (2000 level or above)	3	
MA: MATH 2522 - Applied Linear Algebra *MATH 1248* **OR** MA: MATH 2544 - Linear Algebra *MATH 1248; Coreq: MATH 2248 or MATH 2055*	3		Major Course (2000 level or above)	3	

N2: Ancillary Course Sequence BIOL 1400
  OR CHEM 1400 OR PHYS 1600
	4		N2: Ancillary Course Sequence BIOL 1450
			  OR CHEM 1450 OR PHYS 1650
				4	

Catamount Core (AH Arts & Humanities)	3		Catamount Core (S1 Social Science)	3	
Minor Course	3		Minor Course	3	
Total credits	*17*		*Total credits*	*16*	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status

MATH 3468 - Anyl in Several Real Vars I
MATH 2055; MATH 2248; MATH 2522 or MATH 2544
     OR MATH 3551 - Abstract Algebra I
MATH 2055; MATH 2522 or MATH 2544
	3		MATH 3551 - Abstract Algebra I
			MATH 2055; MATH 2522 or MATH 2544
			     OR MATH 3468 - Anyl in Several Real Vars I
			MATH 2055; MATH 2248; MATH 2522 or MATH 2544
				3	

Major Course (2000 level or above)	3		Major Course (3000 level or above)	3	
Catamount Core (SU Sustainability)	3		Minor Course	3	
Minor Course	3		Free Elective	3	
Free Elective	3		Free Elective	3	
Total credits	*15*		*Total credits*	*15*	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status

Major Course (3000 level or above)	3		MATH 4344 - Topology
			     OR MATH 4788 -Exploring Biomathematics;
			     OR MATH 4996 Undergraduate Honors Thesis
				3	

Major Course (3000 level or above)	3		Catamount Core (S1 Social Science)	3	
Catamount Core (D1/D2 Diversity 1 or Diversity 2)	3		Catamount Core (GC Global Citizenship)	3	
Minor Course	3		Free Elective	3	
Free Elective	3				
Total credits	*15*		*Total credits*	*12*	

Minimum Total Credits Required for Degree: 120

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 2025-2026 found at http://catalogue.uvm.edu/

Prerequisite courses are listed below the course name in italics. Prerequisites listed are only for courses, as relevant to your specific degree program, and may have other registration restrictions. Please refer to the catalogue.

* Grade of C- or higher required

** Grade of C or higher required

Major Course: Please refer to your degree audit to see course options.

MATH 3468 and MATH 3551 are both offered every fall, while MATH 3468 is only offered in the spring of even years and MATH 3551 is only offered in the spring of odd years. It is recommend to take 3468 in the fall and 3551 in the spring or vice versa, depending on the year.

Note: Another option is taking either [2468 in the fall of junior year followed by 3468 in the spring, then 3551 in the fall of senior year] or [2551 in the fall of junior year followed by 3551 in the spring, then 3468 in fall of senior year] depending on whether it is an even or odd year.

Minor Course: A student must complete a minor in a field other than Mathematics by satisfying the requirements specified by the Department or Program supervising the minor. This minor can be within CEMS or a different college. Completion of a second major or second degree in a field other than Mathematics will satisfy the minor requirement.

Catamount Core: Students may take courses that fulfill more than one Catamount Core requirement, but they must still take at least 40 unique credits of courses that have been approved to fulfill Catamount Core requirements.