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

Student:			Date:		2024 - 2025
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		HCOL 1500 - FY Research Presentation Seminar	3	
CEMS 1500 - CEMS First Year Seminar	1		Catamount Core	3	
Catamount Core (WIL1): HCOL 1000 - FY Writing Seminar	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	

Minor Course	3		Minor Course	3	
HCOL 2000 - Sophomore Seminar	3		HCOL 2000 - Sophomore Seminar	3	
Total credits	17		*Total credits*	16	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
MATH 3468 - Anyl in Several Real Vars *MATH 2055; MATH 2248; MATH 2522 or MATH 2544*	3		Major Course (2000 level or above)	3	
MATH 3551 - Abstract Algebra I *MATH 2055; MATH 2522 or MATH 2544*	3		Major Course (3000 level or above)	3	
Catamount Core	3		Minor Course	3	
Minor Course	3		Catamount Core	3	
Free Elective	3		Free Elective	3	
CEMS 2010 - HCOL Research Experience	1		CEMS 2020 - Research Thesis Proposal	1	
Total credits	16		*Total credits*	16	

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	3	
Catamount Core	3		Catamount Core	3	
Minor Course	3		Free Elective	3	
Honors Thesis	3		Honors Thesis	3	
Total credits	15		*Total credits*	15	

Minimum Total Credits Required for Degree: 120

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

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

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.

Students are encouraged to overlap Catamount Core requirements with their PLHC required courses (HCOL 1500 and both HCOL 2000 courses)