BACHELOR OF SCIENCE IN MATHEMATICAL SCIENCES

Major: STATISTICS

Catalogue

2022-2023

Student: _____   **Date:** _____

netID: _____   **Advisor:** _____

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
CEMS 1500 - CEMS First Year Seminar	1		QD: MATH 1248 - Calculus II	4	
QD: CS 1210 - Computer Programming I	3		SPCH 1400 - Effective Speaking	3	
QD: MATH 1234 - Calculus I	4		WIL: (ENGL 1001, HCOL 1000)[1]	3	
Humanities & Social Science Course[1]	3		Free Elective	3	
QD: STAT 1410 or 2430 - Basic Stat Meth I/Stat for Engr	3		QD: STAT 2830 - Basic Statistical Methods II	3	
Total credits	_14_		_Total credits_	_16_	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
QD: MATH 2248 - Calculus III	4		QD: MATH 2522 or 2544 - (Applied) Linear Algebra	3	
Allied Field Course[2] (with lab)	4		QD: STAT 3010 - Stat Computing & Data Analysis	3	
QD: STAT 2870 - Basics of Data Science	3		Humanities & Social Science Course[1]	3	
Humanities & Social Science Course[1]	3		Major Course[3] (MATH, STAT, CS 1XX)	3	
QD: STAT 2510 or 5510 - Applied Probability/Prob Theory	3		Free Elective	3	
Total credits	_17_		_Total credits_	_15_	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
Allied Field Course[2]	3		Allied Field Course[2]	3	
Major Course[3] (STAT)	3		QD: STAT 3410 or 5610 - Statistical Inference	3	
Allied Field Course[2]	3		Allied Field Course[2]	3	
Humanities & Social Science Course[1]	3		Humanities & Social Science Course[1]	3	
QD: STAT 3210 - Statistical Methods II	3		Free Elective	3	
Total credits	_15_		_Total credits_	_15_	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
Major Course[3] (STAT)	3		Humanities & Social Science Course[1]	3	
Allied Field Course[2]	2		Allied Field Course[2] (1XX)	3	
Allied Field Course[2] (1XX)	3		STAT 4810 or 3996 - Capstone or Thesis	3	
Free Elective	4		Free Elective	3	
Free Elective	4				
Total credits	_16_		_Total credits_	_12_	

**Minimum Total Credits Required for Degree: 120**

Ultilize degree audit or re-numbering widget (bit.ly/UVMWidget) to confirm courses.

1. Humanities & Social Sciences: Twenty-one credits of courses selected from Categories I, II, and III listed in the Catalogue (I: Language & Literature, II: Humanties & 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: An additional six credits of statistics, so that the total credits earned in statistics is at least twenty-four. A minimum of three additional credits in mathematics, statistics, or computer science courses numbered 100 or above, so that a total of at least forty-five credits in the core and major courses are earned. A total of eighteen credits in the combined core and major courses must be taken at the 200-level. 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 2022-2023 found at http://catalogue.uvm.edu/