Mathematics and Statistics

Department Information

- Department Location: Minard Hall or 221 Morrill Hall
- Department Phone: 701-231-8171
- Department Web Site:

www.ndsu.edu/math/ or www.ndsu.edu/statistics/ (http://www.ndsu.edu/math/ or www.ndsu.edu/statistics/)

- Credential Offered: B.S.; B.A.
- Official Program Curriculum:

catalog.ndsu.edu/undergraduate/program-curriculum/mathematics-statistics/ (http://catalog.ndsu.edu/undergraduate/program-curriculum/ mathematics-statistics/)

Pre-Actuarial Science Option

Actuarial Science is the study of the evaluation and measurement of risk. The Actuary Science option is a pre-professional program designed to provide the background needed to enter the field. Entrance into the profession is regulated under a system of examinations run by actuarial professional societies. The curriculum for this option is designed to prepare the student to pass several of these examinations.

The nature of the actuarial profession requires its practitioners to have a broad knowledge of finance, law, mathematics, management, and statistics. This option leads to a double major in Mathematics and Statistics with either a minor in Economics or additional courses in business. Students selecting this option are requested to visit with the actuarial advisers in both the Departments of Mathematics and Statistics early and often to confirm their progress and to inform themselves of changes in the examination curriculum.

Sample Program Guide

IMPORTANT DISCLAIMER: A Sample Program Guide provides an unofficial guide of program requirements and should be used by prospective students who are considering attending NDSU in the future. It is NOT an official curriculum and should NOT be used by current NDSU students for official degree planning purposes. Note that the official curriculum used by current NDSU students can vary from the Sample Program Guide due to a variety of factors such as, but not limited to, start year, education goals, transfer credit, and course availability.

To ensure proper program completion, enrolled students should utilize Degree Map (https://www.ndsu.edu/registrar/degreemap/) and Schedule Planner (https://www.ndsu.edu/onestop/degree-map-and-planning/) in Campus Connection and consult regularly with their academic advisor to ensure requirements are being met.

Math and Statistics

Freshman			
Fall	Credits	Spring	Credits
MATH 165		4 MATH 166	2
MATH 129	:	3 MATH 329	:
CSCI 160		4 STAT 330	:
ENGL 110 or 120 (based on placement)	:	3 CSCI 161	2
		COMM 110	:
	14	4	17
Sophomore	14	1	17
Sophomore Fall	14 Credits	4 Spring	17 Credits
	Credits		
Fall	Credits	Spring	Credits
Fall MATH 265	Credits	Spring 4 MATH 266	Credits

Junior			
Fall	Credits	Spring	Credits
MATH 450		3 MATH 300-400 Elective	3
STAT 461		3 STAT 400 Electives	9
Gen Ed Humanities/Fine Arts		3 Gen Ed Upper Level Writing	3
Gen Ed Social/Behavioral Science		3	
Elective		3	
	1	15	15
Senior			
Fall	Credits	Spring	Credits
MATH 491		1 STAT 400 Electives	3
STAT 400 Electives		6 Electives	9
Gen Ed Science & Tech w/lab		4 STAT 462 (Capstone)	3
Gen Ed Science & Tech		3	
Gen Ed Wellness		2	
	1	16	15

Total Credits: 123

Sample Program Guide

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Math and Statistics (Pre-Actuarial)

Credits	Spring	Credits	
2	4 MATH 166		4
3	3 MATH 329		3
3	3 COMM 110		3
3	3 ACCT 201		3
3	3 CSCI 160		4
16	5	1	7
Credits	Spring	Credits	
2	4 MATH 266		3
3	3 MATH 346		3
5	following: CSCI 453, 454; ECON 341, 343, 410, 440, 456, 465, 470, 472, 476, 480, 481, 482; FIN 320, 410,		3
	420, 450, 460)		
	Credits	4 MATH 166 3 MATH 329 3 COMM 110 3 ACCT 201 3 CSCI 160 If Credits Spring 4 MATH 266 3 MATH 346 3 Actuarial Elective (One of the following: CSCI 453, 454; ECON 341, 343, 410, 440, 456, 465, 470, 472, 476, 480, 481, 482; FIN 320, 410,	4 MATH 166 3 MATH 329 3 COMM 110 3 ACCT 201 3 CSCI 160 If Credits Spring Credits 4 MATH 266 3 MATH 346 3 Actuarial Elective (One of the following: CSCI 453, 454; ECON 341, 343, 410, 440, 456, 465, 470, 472, 476, 480, 481, 482; FIN 320, 410,

		Stat 400 Elective		3
		14		15
Junior				
Fall	Credits	Spring	Credits	
MATH 450		3 STAT 468		3
STAT 467		3 MATH 300-400 Elective		3
STAT 400 Elective		3 STAT 400 Elective		3
Upper Level Writing		 3 Actuarial Elective (One of the following: CSCI 453, 454; ECON 34 343, 410, 440, 456, 465, 470, 472, 476, 480, 481, 482; FIN 320, 410, 420, 450, 460) 	1,	3
Actuarial Elective (One of the following: CSCI 453, 454; ECON 341 343, 410, 440, 456, 465, 470, 472, 476, 480, 481, 482; FIN 320, 410, 420, 450, 460)	,	3 Gen Ed Humanities/Fine Arts		3
		15		15
Senior				
Fall	Credits	Spring	Credits	
STAT 400 Elective		3 STAT 476		1
Gen Ed Social/Behavioral Science		6 Gen Ed Science & Tech w/lab		4
Gen Ed Science & Tech		6 Gen Ed Humanities/Fine Arts & Cultural Diversity		6
		Gen Ed Wellness		2
		STAT 462 (Capstone)		3
		15		16

Total Credits: 123