STATISTICS CONCENTRATION

Mathematics, Bachelor of Arts with a Concentration in Statistics Requirements

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Code GENERAL EDUCATIO Required	Title ON REQUIREMENTS - 34 Hours	Credits
Minimum of "C-"requi	red	
Fundamental Skills		15
Writing – 6 hrs.		
ENGL 1150	ENGLISH COMPOSITION I	
ENGL 1160	COLLEGE RESEARCH AND	
Oral Communica		
CMST 1110	PUBLIC SPEAKING FUNDS	
	ARGUMENTATION AND DEBATE	
Quantitative Lite		
MATH 1120	INTRODUCTION TO MATHEMATICAL	
	AND COMPUTATIONAL THINKING	
or MATH 1130	QUANTITATIVE LITERACY	
or MATH 1140	QUANTITATIVE REASONING FOR HEALTHCAR PROFESSIONALS	E
or MATH 1300	COLLEGE ALGEBRA WITH SUPPORT	
Data Literacy – 3	hrs.	
Select one from the	e following:	
STAT 1100	DATA LITERACY AND VISUALIZATION	
STAT 1530	ELEMENTARY STATISTICS	
approved data lite	dents can satisfy this requirement with an racy course, or any approved natural or eral education course.	
Breadth of Knowled		13
Social Science - 3	•	
Humanities – 3 hrs		
Natural & Physical	Science (must complete a lab) – 4 hrs.	
Arts – 3 hrs.	х Г ,	
Individual and Soci	al Responsibility	6
Cultural Knowledg		
	nd Engagement – 3 hrs.	
MAJOR REQUIREM		
-	INO's General Education requirement	
^Course requires pre-	•	
	r with a Concentration in Statistics -	
46 Hours Required		
Required Coursewo	ork	25
MATH 1950	CALCULUS I (^)	
MATH 1960	CALCULUS II (^)	
MATH 1970	CALCULUS III (^)	
MATH 2050	APPLIED LINEAR ALGEBRA (^)	
MATH 2230	INTRODUCTION TO ABSTRACT MATH (^)	
MATH 2350	DIFFERENTIAL EQUATIONS (^)	
MATH 3230	INTRODUCTION TO ANALYSIS (^)	
Select one of the fo	llowing	3

CIST 1400	INTRODUCTION TO COMPUTER SCIENCE I (^)	
MATH 2200	MATHEMATICAL COMPUTING I (^ Recommended for this concentration)	
MATH 3250	INTRODUCTION TO NUMERICAL METHODS (^)	
Select all of the foll	owing Statistics Concentration	9
courses		
MATH 3200	MATHEMATICAL COMPUTING II (^)	
MATH 4740	INTRODUCTION TO PROBABILITY AND STATISTICS I (^)	
MATH 4750	INTRODUCTION TO PROBABILITY AND STATISTICS II (^)	
Select at least two	the following Statistics	6-9
Concentration cour	'ses	
STAT 4420	EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION (^)	
STAT 4430	LINEAR MODELS (^)	
STAT 4440	TIME SERIES ANALYSIS (^)	
•	the following Statistics	0-3
	APPLIED COMBINATORICS (^) PROBABILISTIC OPERATIONS RESEARCH	
,	MODELS (^)	
MATH/STAT 4450	INTRODUCTION TO MACHINE LEARNING AND DATA MINING (^)	
MATH 4900	INDEPENDENT STUDIES	
STAT 4410	INTRODUCTION TO DATA SCIENCE (^)	
College Breadth (ch		15-30 +
Option 1: Complete a certificate - 15+ hours	ny UNO minor or undergraduate	
Option 2: Additional G hours	General Education Requirements - 18+	
Additional quantite	ative literacy - 3 hours	
Additional Social Socia	cience Gen. Ed. from another Discipline - 3	
Additional Humani hours	ties Gen. Ed. from another Discipline - 3	
HIST 1000 and HIS	T 1010 - 6 hours	
Additional Nat. and hours	d Physical Science w/ or without Lab - 3-5	
Option 3: CAS compre UNO major (30+ hour	ehensive major (50+ hours) OR any second rs)	
•	, nguage Requirement	16
	N, 1110, 1120, 2110, 2120	
ELECTIVES		
Elective hours as requ	ired to reach a total of 120 hours	

Mathematics, Bachelor of Arts with a Concentration in Statistics Four Year Plan

Freshman		
Fall		Credits
CMST 1110	PUBLIC SPEAKING FUNDS	3
or CMST 2120	or ARGUMENTATION AND DEBATE	
ENGL 1150	ENGLISH COMPOSITION I	3
MATH 1950	CALCULUS I	5
World Language Cour	5	

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

	Credits	16
Spring		
ENGL 1160	COLLEGE RESEARCH AND INFORMATION LITERACY	3
MATH 1960	CALCULUS II	4
General Educatio	General Education Course or Elective	
Foreign Language	e Course 1120	5
an idea of inte review with UN and ask about	s events such as major exploration week to get rests and career paths. Schedule a resume NO Career Services. Visit faculty office hours undergraduate research opportunities. Make intment for summer and fall: February –	
	Credits	15
Sophomore		
Fall		
MATH 1970	CALCULUS III	4
MATH 2050	APPLIED LINEAR ALGEBRA	3
General Educatio	n Course or Elective	4
World Language	Course 2110	3
employers. Loo gain experienc	reer & Internship Fair to start networking with ok for volunteer, research, or part-time work to e. Join a student organization or club related • interests. Make advising appointment for Oct.	
	Credits	14
Spring		
MATH 2230	INTRODUCTION TO ABSTRACT MATH	3
	DIFFERENTIAL FOLIATIONS	2
MATH 2350	DIFFERENTIAL EQUATIONS	3

General Education Course or Elective World Language Course 2120 Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February - March.

Credits Junior Fall MATH 2200 MATHEMATICAL COMPUTING I MATH 3230 INTRODUCTION TO ANALYSIS MATH 4740 INTRODUCTION TO PROBABILITY AND STATISTICS I **General Education Course or Elective General Education Course or Elective** Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. Credits

	Total Credits	120
	Credits	15
Polish your rest connected by jo	final advising check before graduation. ume, cover letters, and LinkedIn profile. Stay bining alumni networks and professional Apply for graduation via MavLink.	
Elective	for all a details and the state of the state	3
Elective		3
Elective		3
Math course of ch	ırse from the 3000-4000 level or upper-level oice	:
Math course of ch		:
	Credits	15
graduate schoo a career fair ar for interviews o	Career Center for networking tips. Finalize of applications or job search strategy. Attend of start applying for full-time jobs. Prepare and salary negotiations with Career Services. appointment for spring: Sept Oct.	
Elective		3
Elective		3
Group B Math course from the 3000-4000 level or upper-level Math course of choice		
Group A Math course from the 3000-4000 level or upper-level Math course of choice		
Elective		
Fall		
Senior	Credits	1
grad school. At network. Meet check-in to revi	of recommendation from faculty for jobs or tend the All-Majors Career Fair with a plan to with your advisor or submit for a graduation ew remaining degree requirements. Make ntment for summer and fall: February –	
	n Course or Elective	:
Elective	STATISTICS II	
MATH 4750	INTRODUCTION TO PROBABILITY AND	:
MATH 3200	MATHEMATICAL COMPUTING II	

College Breadth: Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

Upper Level Credits: Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

Additional Information About this Plan:

3

3

15

3

3

3

3

3

15

University Degree Requirements: The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

Placement Exams: For Math, English, World Language, a placement exam may be required. More information on these exams can be found at https://

www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php

Transfer credit or placement exam scores may change suggested plan of study

GPA Requirements: 2.0

Note: This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!