

Name: \_\_\_\_\_

**North Dakota State University**

College of Science & Mathematics

ID: \_\_\_\_\_

**MATHEMATICS & STATISTICS MAJOR w/Pre-Actuarial Option - Fall 2009**

GENERAL EDUCATION REQUIREMENTS - 40 Credits Required					MATH MAJOR REQUIREMENTS - 31 credits				
Course	Number	Course Title	Credits	Grade	Course	Number	Course Title	Credits	Grade
<b>First Year Experience (F)</b>			<b>1 credit</b>		MATH	165	Calculus I	4	
UNIV		Skills for Academic Success	1		MATH	166	Calculus II	4	
<b>Communication (C)</b>			<b>12 credits</b>		MATH	265	Calculus III	4	
~ENGL	110	College Composition I	3		MATH	266	Intro to Differential Equations	3	
ENGL	120	College Composition II	3		MATH	270	Intro/Abstract Mathematics	3	
COMM	110	Fundamentals of Public Speaking	3		MATH	429	Linear Algebra	3	
ENGL		(Upper-Division Writing)	3		MATH	450	Real Analysis I	3	
<b>Quantitative Reasoning (R)</b>			<b>3 credits</b>		MATH	488	Numerical Analysis I	3	
MATH	165	Calculus I			MATH	451 OR 489	Real Analysis II OR Numerical Analysis II	3	
<b>Science &amp; Technology (S) (One course w/co-req lab)</b>			<b>10 credits</b>		MATH	376	Actuarial Exam Study	1	
					<b>STATISTICS MAJOR REQUIREMENTS - 16 credits</b>				
					STAT	330	Introductory Statistics	3	
					STAT	461	Applied Regression Models	3	
<b>Humanities &amp; Fine Arts (A) (Max of 3 cr in fine arts perform.)</b>			<b>6 credits</b>		STAT	462	Intro/Experimental Design	3	
			3		STAT	467	Prob & Math Stat I	3	
			3		STAT	468	Prob & Math Stat II	3	
<b>Social &amp; Behavioral Sciences (B)</b>			<b>6 credits</b>		STAT	476	Actuary Exam Study II	1	
ECON	201	Principles of Microeconomics			<b>STATISTICS ELECTIVES: 9 credits at the 400-level other than those listed above</b>				
ECON	202	Principles of Macroeconomics			STAT	4		3	
<b>Wellness (W)</b>			<b>2 credits</b>		STAT	4		3	
			2		STAT	4		3	
<b>Cultural Diversity (D)</b>					<b>RELATED REQUIRED COURSES</b>				
					CSCI	160	Computer Science I	4	
<b>Global Perspectives (G)</b>					CSCI	161	Computer Science II	4	
ECON	201	Principles of Microeconomics			<b>LAB SEQUENCE (choose 1 sequence) - 10 credits *Fulfills Science/Tech Gen Ed Req.</b>				
<b>COLLEGE REQUIREMENTS for a BS or BA Degree</b>					*BIOL	150/L	General Biology I/Lab	3/1	
The College of Science & Mathematics requires an additional 6 credits in Humanities or Social Sciences for the BS degree and an additional 12 credits for the BA degree and two years proficiency of a modern foreign language.						151/L	General Biology II/Lab	OR	3/1
					BIOL	220/L	Human Anat & Phys I/Lab		3/1
						221/L	Human Anat & Phys II/Lab	OR	3/1
<b>BA Degree Requirements:</b>					*CHEM	121/L	Gen. Chemistry I/Lab		3/1
2nd Yr Lang Proficiency						122/L	Gen. Chemistry II/Lab	OR	3/1
HUM or Soc Sci			3		CHEM	150/160	Prin. of Chem I/Lab		3/1
HUM or Soc Sci			3			151/161	Prin. of Chem II/Lab	OR	3/1
HUM or Soc Sci			3		MICR	350/L	Gen Microbiology I/Lab		3/1
HUM or Soc Sci			3			352/L	Gen Microbiology II/Lab	OR	3/1
<b>BS Degree Requirements:</b>					Science Elective				
HUM or Soc Sci			3		<b>OR Just the Physics courses listed below</b>				
HUM or Soc Sci			3		PHYS	251/L	Univ Physics I/Lab		4/1
A grade of C or better is required on all <u>major</u> courses. More Curriculum continued on the back						252/L	Univ Physics II/Lab		4/1
					<b>*Fulfills Science and Technology</b>				
To complete a degree, the general education requirements of the College of Science & Mathematics and NDSU need to be met along with this major.									

Advisor: \_\_\_\_\_

**MATHEMATICS & STATISTICS DOUBLE MAJOR (w/ Pre-Actuarial Option) - Continued**

UNIVERSITY GRADUATION REQUIREMENTS		ACCOUNTING, BUSINESS, & ECONOMICS COURSES					
Residency at NDSU: with at least 15 credits in major	<b>36 credits</b>		ACCT	200	Elements of Accounting I	3	
Credits at a 4-yr University	<b>60 credits</b>		ACCT	201	Elements of Accounting II	3	
Courses numbers 300 or higher (Min. 15 credits at NDSU)	<b>37 credits</b>		ECON	201	Principles of Microeconomics	3	
<b>Total credits required:</b>	<b>Minimum 122 credits</b>		ECON	202	Principles of Macroeconomics	3	
<b>NOTES/COMMENTS</b>		<b>ELECTIVES: Choose 9 credits</b>					
<b>MATH 101 &amp; 102 credits do not count towards graduation</b> All courses taken to fulfill gen ed, college or major <b>ALL COURSES ON THIS CURRICULUM ARE REQUIRED FOR THE MAJOR</b> D transfer grade credits will count toward graduation, but no specific degree requirement			BUSN	340, 441, 442, 444, 446			
			CSCI	453, 454			
			ECON	341, 343			
			ECON	400-482			

^UNIV 189 is required for students with fewer than 24 earned transfer credits.

~First year students with a composite ACT score of  $\geq 21$  should register for ENGL 120 (unless transfer credit for ENGL 120 is received). If ENGL 120 is completed with a grade of "C" or better, three credits will be awarded for ENGL 110 with a passing grade (P). For more details on NDSU's English Placement process, go to [www.ndsu.edu/cfwriters](http://www.ndsu.edu/cfwriters).