

NAME: _____

North Dakota State University

College of Science & Mathematics

ID: _____

MATHEMATICS & COMPUTER SCIENCE DOUBLE MAJOR

GENERAL EDUCATION REQUIREMENTS - 40 Credits Required					MATH MAJOR REQUIREMENTS - 28 credits				
Course	Number	Course Title	Credits	Grade	Course	Number	Course Title	Credits	Grade
First Year Experience (F) 1 credit					MATH	165	Calculus I	4	
UNIV	189	Skills for Academic Success	1		MATH	166	Calculus II	4	
Communications Category (C) 12 credits					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	429	Linear Algebra	3	
COMM	110	Fundamentals of Public Speaking	3		MATH	450	Real Analysis I	3	
ENGL		(Upper-Division Writing)	3		MATH	420 & 421	Abstract Algebra I & II	6	OR
Quantitative Reasoning (R) 3 credits					MATH	450 & 451	Real Analysis I & II	6	
					MATH	491	Capstone Seminar	1	
Science & Technology Category (S) 10 credits					COMPUTER SCIENCE MAJOR REQUIREMENTS - 38 credits				
					CSCI	160	Computer Science I	4	
					CSCI	161	Computer Science II	4	
					CSCI	335	Theoretical Computer Science I	3	
Humanities & Fine Arts (A) (Max of 3 cr in fine arts perform) 6 credits					CSCI	336	Theoretical Computer Science II	3	
					CSCI	366	Files for Database Systems	3	
					CSCI	372	Comparative Programming Languages	3	
Social & Behavioral Sciences (B) 6 credits					CSCI	373	Assembly Programming	3	
					CSCI	374	Computer Organization & Architecture	3	
					CSCI	458	Microcomputer Graphics	3	
Wellness Category (W) 2 credits					CSCI	467	Algorithm Analysis	3	
					CSCI	474	Operating Systems Concepts	3	
Cultural Diversity Category (D)					CSCI	489	Capstone	3	
					Related Required Courses (Not counted as part of major credits)				
Global Perspectives Category (G)					STAT	367	Probability	3	
					STAT	368	Statistics	3	
COLLEGE REQUIREMENTS for a BS or BA Degree					CSCI	222	Discrete Mathematics	3	OR
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.					MATH	270	Intro to Abstract Mathematics	3	
					ONE course from Below (Not counted as part of major credits)				
BA Degree Requirements:					CSCI	453	Linear Programming & Network Flows	3	
2nd Yr Lang Proficiency					CSCI	460	Dynamic Programming	3	
HUM or Soc Sci			3		MATH	436	Combinatorics	3	
HUM or Soc Sci			3		MATH	488	Numerical Analysis I	3	
HUM or Soc Sci			3		PROGRAM NOTES				
HUM or Soc Sci			3		All courses taken to fulfill gen ed, college or major requirements may NOT be taken P/F.				
BS Degree Requirements:									
HUM or Soc Sci			3		ALL COURSES IN THIS CURRICULUM ARE REQUIRED FOR THE MAJOR				
HUM or Soc Sci			3						
A grade of C or better is required in MATH & CSCI courses used toward the major.					Curriculum is continued on the back				

To complete a degree, the general education requirements of the College of Science & Mathematics and NDSU need to be met along with this major.

Fall 2007

Advisor: _____

Rev. 5/8/2007

MATH & COMPUTER SCIENCE DOUBLE MAJOR - Continued

UNIVERSITY GRADUATION REQUIREMENTS		Lab Science Sequence chosen from:				
Residency at NDSU:	36 credits with at least 15 credits in major	Course	Number	Course Title	Credits	Grade
Credits at a 4-yr University	60 credits	BIOL	150 & Lab	General Biology I & Lab	3, 1	
Courses numbers 300 or higher	37 credits (Min. 15 credits at NDSU)	BIOL	151 & Lab	General Biology II & Lab OR	3, 1	
Total credits required:	Minimum 122 credits	BIOL	220 & Lab	Human Anatomy & Physiology I & Lab	3, 1	
NOTES/COMMENTS		BIOL	221 & Lab	Human Anatomy & Physi II & Lab OR	3, 1	
MATH 101 & 102 credits do not count towards graduation		CHEM	121 & Lab	General Chemistry I & Lab	3, 1	
		CHEM	122 & Lab	General Chemistry II & Lab OR	3, 1	
D transfer grade credits will count toward graduation, but no specific degree requirement.		CHEM	150/160	Principles of Chemistry I & Lab	3, 1	
		CHEM	151/161	Principles of Chemistry II & Lab OR	3, 1	
		MICR	350 & Lab	General Microbiology I & Lab	3, 1	
		MICR	352 & Lab	General Microbiology II & Lab OR	3, 1	
		PHYS	251 & Lab	University Physics I & Lab	4, 1	
		PHYS	252 & Lab	University Physics II & Lab OR	4, 1	