

Name: _____

APPLIED AND COMPUTATIONAL MATHEMATICS

MAJOR REQUIREMENTS 2002 - 2007

ALL REQUIRED COURSES MUST BE COMPLETED WITH A GRADE OF "C" OR BETTER

<u>COURSES REQUIRED</u>	<u>MINIMUM CREDITS</u>	<u>COURSES COMPLETED</u> <u>Subj.#:Course#</u>	<u>COMPLETED</u>		<u>SENIOR REVIEW</u>
			<u>CREDITS</u>	<u>SEM/YR</u>	
<u>FIRST YEAR</u>					
UNIFIED CALCULUS I	4	640:121	_____	_____	_____
UNIFIED CALCULUS II	4	640:122	_____	_____	_____
ELEMENTS OF PHYSICS I and LAB	4	750:131, 133	_____	_____	_____
ELEMENTS OF PHYSICS II and LAB	4	750:132, 134	_____	_____	_____
<u>SOPHOMORE YEAR</u>					
UNIFIED CALCULUS III	4	640:221	_____	_____	_____
LINEAR ALGEBRA	3	640:250	_____	_____	_____
DISCRETE MATHEMATICS	3	640:237	_____	_____	_____
INTRO. TO COMPUTER SCIENCE and LAB I	4	198:111,112	_____	_____	_____
<u>JUNIOR YEAR</u>					
ELEMENTARY DIFFERENTIAL EQUATIONS	3	640:314	_____	_____	_____
INTRODUCTION TO NUMERICAL METHODS	3	198:381	_____	_____	_____
PROG. WITH DATA STRUCTURES and LAB II	4	198:113,114	_____	_____	_____
DESIGN and ANALYSIS OF ALGORITHMS	3	198:271	_____	_____	_____
<u>SENIOR YEAR</u>					
ADVANCED DISCRETE MATHEMATICS	3	640:358	_____	_____	_____
PARTIAL DIFFERENTIAL EQUATIONS and BOUNDARY VALUE PROBLEMS	3	640:463	_____	_____	_____
ADVANCED NUMERICAL METHODS	3	198:481	_____	_____	_____
APPLIED and COMP. MATH ELECTIVE	3	_____	_____	_____	_____
(Choose from: 640:427 Advanced Differential Equations, 640:497 Visualizing Mathematics by Computer, 640:498 Computational Mathematics, 640:499 Mathematics on the Web, 645: 557 Signal Processing, 645:558 Queuing Theory, 198:317 Parallel Supercomputing, 198:356 Computer Graphics, 198:458 Scientific Visualization)					

Minimum Total Credits 55 Actual Credits Completed _____ C=Complete

NOTE: For a minor in Computer Science, a student needs to take the following additional two courses: 198:221 Programming Language Concepts and 198:231 Computer Organization and Assembly Language Programming.

TOTAL DEGREE CREDITS REQUIRED: 120 TOTAL CREDITS COMPLETED: _____

SENIOR REVIEW APPROVAL BY FACULTY ADVISOR: _____

DATE OF REVIEW: _____

STUDENT SIGNATURE AND DATE: _____