

Name: _____

APPLIED AND COMPUTATIONAL MATHEMATICS

MAJOR REQUIREMENTS 2002 - 2010

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 CREDITS</u>	<u>SEM/YR</u>	<u>SENIOR REVIEW</u>
<u>FIRST YEAR</u>					
UNIFIED CALCULUS I	4	640:121	_____	_____	_____
UNIFIED CALCULUS II	4	640:122	_____	_____	_____
ELEMENTS OF PHYSICS I and LAB	3,1	750:131, 133	_____	_____	_____
ELEMENTS OF PHYSICS II and LAB	3,1	750:132, 134	_____	_____	_____
<u>SOPHOMORE YEAR</u>					
PROGRAMMING FUND., SOFTWARE LAB	3,1	198:111,112	_____	_____	_____
UNIFIED CALCULUS III	4	640:221	_____	_____	_____
DISCRETE MATHEMATICS	3	640:237	_____	_____	_____
LINEAR ALGEBRA	3	640:250	_____	_____	_____
<u>JUNIOR YEAR</u>					
OBJECT ORIENTED PROG., SOFTWARE LAB	3,1	198:113,114	_____	_____	_____
DESIGN AND ANALYSIS OF ALGORITHMS	3	198:371	_____	_____	_____
INTRO. TO NUMERICAL METHODS	3	198:381	_____	_____	_____
ELEMENTARY DIFFERENTIAL EQUATIONS	3	640:314	_____	_____	_____
<u>SENIOR YEAR</u>					
ADVANCED NUMERICAL METHODS	3	198:481	_____	_____	_____
ADVANCED DISCRETE MATHEMATICS	3	640:358	_____	_____	_____
PARTIAL DIFFERENTIAL EQUATIONS AND BOUNDARY VALUE PROBLEMS	3	640:463	_____	_____	_____
APPLIED and COMP. MATH ELECTIVE	3	_____	_____	_____	_____

(Choose from: 198:316 Parallel Programming, 198:456 Computer Graphics, 198:458 Scientific Visualization, 640:345 Mathematics on the Web, 640:347 Visualizing Mathematics by Computer, 640:357 Computational Mathematics, 640:427 Advanced Differential Equations, 645: 557 Signal Processing, 645:558 Queuing Theory)

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: 198:231 Introduction fo Computer Organization and 198:321 Programming Language Concepts.

TOTAL DEGREE CREDITS REQUIRED: 120

TOTAL CREDITS COMPLETED: _____

SENIOR REVIEW APPROVAL BY FACULTY ADVISOR: _____

DATE OF REVIEW: _____

STUDENT SIGNATURE AND DATE: _____