



COLLEGE OF LIBERAL ARTS & SCIENCES

Master of Science

APPLIED MATHEMATICS & COMPUTER SCIENCE

Total Credits Required: 33

Degree Requirements for those entering the program after July 2009

NAME:	ID#:	DATE:
Address:	Tel:	Email:

A. Necessary Prerequisites

Computer Science Prerequisites		Mathematics Prerequisites	
C101/A504 Programming I (C++)	: _____	M208 /M215 Calculus I	: _____
C201/A506 Programming II (C++)	: _____	M209 /M216 Calculus II	: _____
C243/A594 Data Structures	: _____	M301 / Linear Algebra	: _____
C335/ A593 Computer Structures	: _____	M365 or M463/M466 - Probability/Statistics	: _____

B. Graduate Level Classes (24-33 Credits)

Computer Science Concentration		Mathematics Concentration	
B503 - Algorithms Design & Analysis	: _____	M560 - Applied Stochastic Processes	: _____
B538 - Networks & Distrib. Computing	: _____	M562 - Stat. Design of Experiments	: _____
B551 - Artificial Intelligence	: _____	M571 - Analysis of Numerical Methods I	: _____
B561 - Advanced Database Concepts	: _____	M575 - Simulation Modeling	: _____
B581 - Advanced Computer Graphics	: _____	M576 - Forecasting	: _____
P565 - Software Engineering	: _____	M577 - Operations Research	: _____
B553 - Biomorphic Computing	: _____	M551 - Markets & Asset Pricing	: _____
B582 - Image Synthesis	: _____	M565 - Analysis of Variance	: _____
B583 - Game Programming & Design	: _____	M546 - Control Theory	: _____
B651 - Natural Language Processing	: _____	M572 - Numerical Analysis II	: _____
B524 - Parallel & Distributed Computing	: _____		
B657 - Computer Vision	: _____		
B689 - Graphics and HCI	: _____		

C. Optional 400 Level Undergraduate classes (max 6 credits)

C431 – Assemblers & Compilers I	: _____	M415 - Complex Variables & Applications	: _____
B438 - Computer Networks	: _____	M451 - Math of Finance & Interest	: _____
C435 - Operating Systems	: _____	M463 - Introduction to Probability Theory	: _____
C421 - Computer Organization	: _____	M466 - Introduction to Math Stats	: _____
C441 - Info Org & Retrieval	: _____	M447 - Math Modeling I	: _____
C442/A510 - Database Management	: _____	M448 - Math Modeling II	: _____
C490 - Topics in CS	: _____		

D. Thesis Option (9 Credits)

Thesis Title:			
Graduate Advisor:			
Committee Member:			