

MSCS DEGREE REQUIREMENTS FORM *last revised (6/8/09)*

Name: _____ ID #: _____

Requirement A: 36 credits of approved coursework

- 21 credits- standard CS classroom based courses

Course _____ Semester _____ Grade _____ Credits: _____

- 6 credits- CS, standard Math; independent study; MS thesis (no external internships)

Course _____ Semester _____ Grade _____ Credits: _____

Course _____ Semester _____ Grade _____ Credits: _____

- Remaining 9 in any of above or: credits transferred from graduate study in CS; external internship; relevant grad courses. At most, 6 credits of external internship (These often require DGS approval)

Course _____ Semester _____ Grade _____ Credits: _____

Course _____ Semester _____ Grade _____ Credits: _____

Course _____ Semester _____ Grade _____ Credits: _____

Requirement B: CORE EXAM or Master's Thesis (3.75 GPA needed to do a thesis)

Option: _____ Completion date: _____

Requirement C: Must pass at least ONE course in TWO of following application areas

Course _____ Semester _____ Grade _____ Credits: _____

Course _____ Semester _____ Grade _____ Credits: _____

Graphics

- * Advanced Computer Graphics
- * Advanced Computer Vision
- * Computational Geometry
- * Computational Photography
- * Computer Games
- * Computer Graphics
- * Computer Vision

- * Computer Vision and Tracking
- * Experiments in Motion Capture
- * Geometric Modeling
- * Interactive Shape Modeling
- * Multimedia
- * User Interfaces

Computation for Science and Society

- * Advanced Topics in Numerical Analysis: Convex & Nonsmooth Optimization
- * Applied Cryptography & Network Security
- * Bioinformatics
- * Bioinformatics and Genomics
- * Computational Biology
- * Computational Fluid Dynamics
- * Computational PDEs
- * Computational Systems Biology
- * Cryptographic Tools in Deployed Systems: What Does the Padlock Mean?
- * Financial Computing I
- * High Performance Scientific Computing
- * Immersed Bound Meth
- * Information & Communication Technology for Developing Countries
- * Introduction to Cryptography
- * Introduction to Finance for CS
- * Linear Programming
- * Monte Carlo Methods
- * Numerical Methods I
- * Numerical Methods II
- * Numerical Methods for Time-Dependant PDEs
- * Scientific Computing
- * Speech Recognition
- * Topics in Numerical Analysis

Intelligent Systems

- * Advanced Computer Vision
- * Advanced Topics in Natural Language Processing
- * Artificial Intelligence
- * Computer Vision
- * Data Mining
- * Data Warehousing and Mining
- * Foundations of Machine Learning
- * Heuristic Problem Solving
- * Information Science of Marketing
- * Logic in Computer Science
- * Machine Learning
- * Mobile Robots
- * Natural Language Processing
- * Programming Semantics, Analysis & Verification by Abstract Interpretation
- * Topics in Automated Deduction
- * Web Search Engines

Databases

- * Advanced Database Systems
- * Data Mining
- * Data Warehousing
- * Database Systems
- * Distributed Storage Systems

Requirement D: Pass at least **ONE** large scale programming project course.

Course _____ Semester _____ Grade _____ Credits: _____

- * Advanced Database Systems
- * Compiler Construction
- * Distributed Storage Systems
- * Distributed Systems
- * Finance Projects
- * Heuristic Problem Solving
- * High Perform Computer Architecture
- * Honors Compilers
- * Info Tech Projects
- * Interactive Shape Modeling
- * Networks and Distributed Systems
- * Production Quality Software
- * Software Engineering
- * What if a Computer Lies