MSCS DEGREE REQUIREMENTS FORM PRIOR TO FALL 2009 last revised (5/21/10)

| Name: | ID #: | | | |
|--|---|--|--|--|
| Requirement A: 36 credits of approved cou | irsework | | | |
| • 21 credits - standard CS graduate class | sroom-based courses | | | |
| Course | Semester | Grade | Credits: | |
| Course | Semester | Grade | Credits: | |
| Course | Semester | Grade | Credits: | |
| Course | Semester | Grade | Credits: | |
| Course | Semester | Grade | Credits: | |
| Course | Semester | Grade | Credits: | |
| Course | | | | |
| • 6 credits - standard graduate CS & Ma Independent study and master's thesis Course | require DGS approval. | | _ | |
| | | | | |
| Course | Semester | Grade | Credits: | |
| Course | Semester | Grade | Credits: | |
| Course | Semester | Grade | Credits: | |
| Course | Semester | Grade | Credits: | |
| Requirement B: A student must pass the Connaster's thesis if the following conditions courses; the student has completed all three full-time faculty member to serve as a the Option: | are satisfied: the student ee core courses with at leasis advisor; and the student Completion date: | has a cumulativ ast a B+ in each nt has received | ve GPA of 3.75 after six ; the student has found a approval from the DGS | |
| - | C C | 0 11 | | |
| Course | Semester | Grade | Credits: | |
| Course | Semester | Grade | Credits: | |
| Graphics Advanced Computer Graphics Advanced Computer Vision Computational Geometry Computational Photography Computer Games Computer Graphics | * Experiment * Geometric I * Interactive S * Multimedia | Computer Vision and Tracking Experiments in Motion Capture Geometric Modeling Interactive Shape Modeling Multimedia User Interfaces | | |
| * Computer Vision | * Visualizatio | on | | |

Computation for Science and Society

- * Advanced Topics in Numerical Analysis: Convex & Nonsmooth Optimization
- * Advanced Cryptography
- * 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
- * Financial Computing Projects
- * Financial Software Projects
- * High Performance Scientific Computing
- * Immersed Boundary Method
- * 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
- * Values Embodied in Information and Communications Technology

Intelligent Systems

- * Advanced Computer Vision
- * Advanced Topics in Natural Language Processing
- * Artificial Intelligence
- * Computer Vision
- * Data Mining
- * Data Warehousing and Mining
- * Deductive Verification of Reactive Systems
- * Foundations of Machine Learning
- * Heuristic Problem Solving

Databases

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

- * Information Science of Marketing
- * Logic in Computer Science
- Machine Learning
- * Mobile Robots
- * Natural Language Processing
- * Optimization in Machine Learning
- * Programming Semantics, Analysis & Verification by Abstract Interpretation
- * Topics in Automated Deduction
- * Web Search Engines
- * Database Systems
- * Distributed Storage Systems

Requirement D: A student must pass **ONE** of the following designated large scale programming project courses.

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