Department of Computer Science and Information Systems
Computer Science Master's Degree Plan

Non-Thesis Option – Total 36 hours including CSCI595 (Research Project)
Thesis Option – Total 30 hours including 6 hours of CSCI518 (Thesis)

Name _____ CWID _____
(Last Name) (First Name)

Email: _____ Advisor _____

Computer Science Prerequisites

Prerequisites do not count towards hours to complete degree. Fill in your grades next to the course, sign, and submit to your advisor.

__ 515 Fundamentals of Programming C/C++ _____ (Passed/Waived Semester)

__ 516 Computing Machine Organization _____ (Passed/Waived Semester)

Core Courses (required)
__ 520 Data Structures & Algorithm Analysis
__ 530 Operating Systems
__ 532 Algorithm Design
__ 540 Computer Architecture
__ 549 Automata Theory

Required – one of the following
__ 518 Thesis (6 hrs.)
__ 595 Research Project

Electives
Any graduate-level CSCI courses except CSCI 507 and CSCI 508 and the prerequisite courses of CSCI 502, 515, 516

Track Emphasis (must complete at least one track)
Track courses can be taken as electives

Track 1: Database
__ 526 Database Systems
__ 527 Advanced Databases

Track 2: Computer Networks
__ 525 Networking I Local Area Networks
__ 534 Networking II Routers

Track 3: Cyber Security
__ 563 Information Security
__ 554 Digital Forensic

Track 4: Artificial Intelligence
__ 538 Artificial Intelligence
__ 574 Machine Learning

Track 5: Data Science
__ 556 Data Analysis and Visualization
__ 573 Big Data Computing & Analytics

Track 6: Image Processing
__ 567 Image Processing w/ Learning
__ 569 Image Analysis w/ Learning

Track 7: Software Engineering
__ 524 Analysis and Design Software Systems
__ 548 Software Testing

Master's Comprehensive Exam: Each student must pass the Master's Comprehensive Exam. This exam is given during the Fall and Spring semesters and it is the responsibility of the student to register for the test with the department.

Comprehensive Exam: _____(Pass/Fail) _____(Pass/Fail) _____(Pass/Fail)

Student: _____ Date: _____

Advisor: _____ Date: _____