Department of Computer Science and Information Systems

Computer Science Master’s Degree Plan

Non-Thesis Option – 11 courses and 595
Thesis Option – 8 courses and 6 hrs of 518

Name ___________________________ (Last Name) (First Name)CWID ___________________________

Advisor _________________________________________

Computer Science Prerequisites
Prerequisites do not count towards hours to complete degree.

__ 515 Fundamentals of Programming C/C++ __ 516 Computing Machine Organization

Core Courses (required)

__ 520 Info Structures & Algorithm Analysis
__ 530 Operating Systems
__ 532 Algorithm Design
__ 540 Computer Architecture
__ 549 Automata Theory

Required – one of the following

__ 595 Research Project
__ 518 Thesis (6 hrs)

Electives

__ 528 Object Oriented Programming
__ 531 Java Programming
__ 542 Microcomputer Instrument and Control
__ 552 Advanced Micro-controller Electronics
__ 546 Numerical Analysis
__ 569 Image Analysis and Recognition
__ __________________________________
__ __________________________________
__ __________________________________
__ __________________________________
__ __________________________________

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

Database
__ 526 Database Systems
__ 527 Advanced Databases
__ 556 Data Analysis & Visualization
__ 573 Big Data Computing & Analytics
  (Completion of three courses required)

Computer Networks
__ 525 Networking I Local Area Networks
__ 534 Networking II Routers
__ 553 Networking III Unix Based Networks

Information Security
__ 563 Information Security
__ 568 Cryptography
__ 581 Computer and Network Security

Artificial Intelligence
__ 538 Artificial Intelligence
__ 560 Neural Networks
__ 567 Image Processing w/ Applications
__ 574 Machine Learning
  (Completion of three courses required)

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: _______________________