Department of Computer Sci	ence and Information Systems
Computer Science	Master's Degree Plan
-	n - 11 courses and 595
	ourses and 6 hrs of 518
Name	CWID
Advisor	
Computer Scie	ence Prerequisites
Prerequisites do not count to	wards hours to complete degree.
515 Fundamentals of Programming C/C++	516 Computing Machine Organization
Core Courses (required)	<b>Track Emphasis (must complete at least one track)</b> Track courses can be taken as electives
520 Info Structures & Algorithm Analysis	
530 Operating Systems	Database
532 Algorithm Design	526 Database Systems
540 Computer Architecture	527 Advanced Databases
549 Automata Theory	556 Data Analysis & Visualization
	573 Big Data Computing & Analytics
<b>Required</b> – one of the following	(Completion of three courses required)
595 Research Project	Computer Networks
518 Thesis (6 hrs)	525 Networking I Local Area Networks
	534 Networking II Routers
Electives	553 Networking III Unix Based Networks
528 Object Oriented Programming	Information Security
528 Object Oriented Programming 531 Java Programming	563 Information Security
542 Microcomputer Instrument and Control	568 Cryptography
552Advanced Micro-controller Electronics	581 Computer and Network Security
546 Numerical Analysis	
569 Image Analysis and Recognition	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:	