

Computer and Information Sciences
Curriculum in Computer Science (M.S.)
(2011 Catalog Year)



First Year

First Semester

Course Number	Course Title	Credits
CSCI-501	Algorithmics	3
CSCI-510	Advanced Operating Systems	3
CSCI-530	Computational Intelligence and Informatics	3
CSCI-691	Graduate Seminar -- Survey	1
		10

Second Semester

Course Number	Course Title	Credits
CSCI-502	Theory of Computing	3
CSCI-520	Advanced Computer Networking and Communications	3
CSCI-540	Machine Learning	3
CSCI-692	Graduate Seminar -- Critical Analysis	1
		10

Second Year

Course Number	Course Title	Credits
CSCI-695	Thesis research or project	3
	Elective 1	3
		6

Course Number	Course Title	Credits
CSCI-695	Thesis research or project	3
	Elective 1	3
		6

Total Credit Hours	32
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List for Elective Courses for M.S. in Computer Science

Group: Theory

CSCI-560	Numerical Analysis
CSCI-561	Computational Geometry
CSCI-562	Computer Simulation
CSCI-563	Scientific Computing
CSCI-564	Graph Theory
CSCI-565	Computational Learning Theory
CSCI-566	Advanced Statistics

Group: Systems

CSCI-511	Distributed Systems and Parallel Computing
CSCI-512	Computer and Network Security
CSCI-521	Mobile Networking and Computing
CSCI-531	Software Engineering
CSCI-541	Human-Computer Interaction
CSCI-542	Virtual Worlds
CSCI-543	Advanced Computer Graphics
CSCI-544	Game Programming
CSCI-550	Advanced Database Management Systems

Group: Computational Intelligence and Informatics

CSCI-551	Data Warehousing
CSCI-552	Data Mining and Visualization
CSCI-554	Pattern Recognition
CSCI-555	Artificial Neural Networks
CSCI-556	Emergent Algorithms
CSCI-557	Expert Systems
CSCI-558	Evolutionary Computation
CSCI-567	Image Processing
CSCI-570	Computer Vision
CSCI-571	Robotics
CSCI-580	Bioinformatics
CSCI-585	Medical Informatics
CSCI-590	Informatics for Homeland Security
CSCI-599	Topics in Computer Science