

Fitchburg State College
MASTER OF SCIENCE IN COMPUTER SCIENCE

NAME _____

Email/phone# _____

(Numbers below indicate semester hours)

UNDERGRADUATE PREREQUISITES:

MATH 1900 Discrete Mathematics	3
MATH 2200 Business Statistics	3
MATH 2300 Calculus I	3
MATH 2400 Calculus II	3
MATH 2600 Linear Algebra	3
CSC 1500 Computer Science I (Java)	3
CSC 1550 Computer Science II (Java)	3
CSC 1600 Introduction to Electronics	3
CSC 1650 Digital Electronics	3
CSC 2560 Systems Programming (UNIX & C)	3
CSC 2600 Computer Organization	4
CSC 3100 Operating Systems	3
CSC 3200 Programming Languages	3
CSC 3600 Microprocessors	3
CSC 3700 Algorithms & Data Structures	3
CSC 4400 Software Engineering	3

GRADUATE CORE COURSES:

CSC 7050 Theory of Computation	3
CSC 7400 Obj. Oriented Analysis & Design	3
CSC 8050 Design & Analysis of Algorithms	3

THESIS REQUIREMENTS:

*CSC 9010 Master's Thesis I	3
CSC 9011 Master's Thesis II	3
**CSC 9012 Thesis Continuation I	
*CSC 9013 Thesis Continuation II	

*Can register for thesis only after clearing all the undergraduate prerequisites, graduate core courses and at least three other graduate electives.

** Register for Thesis Continuation only if needed to maintain full-time status. Credits do not count toward the degree requirements.

SELECT COURSES TO A TOTAL OF 18 S.H FROM THE LIST OF ELECTIVES BELOW:

Algorithms Track

CSC 7160 Software Development in Computer Graphics	3
CSC 9050 Graph Algorithms	3

Web Programming Track

CSC 7500 Database Design	3
CSC 8205 Advanced Java	3

Programming Track

CSC 7000 Programming under UNIX in "C"	3
CSC 7200 Object-Oriented Programming in "C++"	3
CSC 8190 UNIX Network Programming	3

Networking Track

CSC 7255 Data Communications & Networking	3
CSC 8120 Local Area Networks	3
CSC 8255 Advanced Network Technologies	3

Operating Systems Track

CSC 8180 Windows Programming with MFC	3
CSC 8280 Advanced Operating Systems	3
CSC 8600 Topics: Client/Server Networking	3

General Electives

CSC 7600 Topics: Embedded Systems	3
CSC 7-9600 Topics in Computer Science	3
CSC 8901 Internships	1 to 3

Total graduate credits for degree _____ **33**