MS COMPUTER SCIENCE

Program Learning Objectives

1. Prepared for successful careers in a computing-related field, including careers that involve positions of technical leadership and advanced responsibility.

2. Exposed to a broad range of computer-science subjects in coursework that emphasizes technical subject matter.

3. Able to perform, analyze, evaluate and synthesize computer science research, in particular, know how to present research findings in oral and written form.

4. Prepared for life-long learning in the discipline of computer science, including continued formal graduate education.

5. Aware of the impacts of computing technology on society and understand ethics and responsible professional conduct.

The MS degree requires at least 45 units beyond the undergraduate degree. Courses must be chosen according to the following requirements:

Select from the following: 20

- CSC 508 Software Engineering I
- CSC 509 Software Engineering II
- CSC 515 Computer Architecture
- CSC 521 Computer Security
- CSC 530 Languages and Translators
- CSC 540 Theory of Computation II
- CSC 550 Operating Systems
- CSC 560 Database Systems
- CSC 564 Computer Networks: Research Topics
- CSC 566 Topics in Advanced Data Mining
- CSC 569 Distributed Computing
- CSC 570 Current Topics in Computer Science
- CSC 572 Computer Graphics
- CSC 580 Artificial Intelligence
- CSC 581 Computer Support for Knowledge Management
- CSC 582 Introduction to Natural Language Processing

Thesis/Project and Seminar

- CSC 590 Thesis Seminar 1
- CSC 596 Thesis I 2
- CSC 597 Thesis II 3
- CSC 599 Thesis III 3

Electives

Selected with Graduate Coordinator approval 16

Total units 45

For further information or advisement students should communicate with the Graduate Coordinator of the Computer Science Department.