Master of Applied Science in Computer Engineering (MASCE)

Courses

The total credit requirement to complete this Master of Applied Science in Computer Engineering program is 36 credit hours of technical courses. The courses are divided into core courses, elective courses and a project course. The core is designed to provide the students with advanced concepts and hardware/software skills in the area. The electives give more in-depth information on application areas. The project course is offered over two semesters and should be taken in the last two semesters.

Seven Core Courses (3 credit hours each)
- ENGI 9859 Computer Engineering Fundamentals
- ENGI 9861 High Performance Computer Architecture
- ENGI 9865 Advanced Digital Systems
- ENGI 9867 Advanced Computing Concepts for Engineering
- ENGI 9871 Information Theory and Coding
- ENGI 9874 Software Design and Specifications
- ENGI 9876 Advanced Data Networks

One Project Course (6 credit hours)

- ENGI 980A/B Computer Engineering Project

Three Elective Courses: (3 credit hours each)
- ENGI 9821 Digital Signal Processing
- ENGI 9822 Nonlinear Image Processing & Analysis
- ENGI 9868 ASIC Design
- ENGI 9869 Advanced Concurrent Programming
- ENGI 9872 Digital Communications
- ENGI 9875 Embedded and Real-Time Systems Design
- ENGI 9877 Computer and Communications Security
- ENGI 9878 Wireless and Mobile Communications
- ENGI 9879 Formal Specification and Development
- ENGI 9880/83 Special Topics in Computer Engineering
- ENGI 9888/91 Special Topics in Communications Engineering
- CS 6752 Applications of Computer Graphics
- CS 6756 Digital Image Processing
- PHYS 6102 Optics and Photonics