



M.S.Cp.E. (Thesis Option)	M.Eng.Cp.E. (Non-Thesis Option)
Core Courses: 15 credit-hours Electives: 12 credit-hours Thesis: 6 credit-hours Total: 33 credit-hours	Core Courses: 15 credit-hours Electives: 21 credit-hours Design Project: 3 credit-hours Total: 39 credit-hours

**Digital Signal Processing
 Area of Interest**

Core Courses

- EE 5720 – Digital Signal Processing
- EE 6010 – Mathematical Methods for Signal Processing
- EE 6020 – Stochastic Processes
- EE 6030 – Linear Systems
- EE 6120 – Computer Architecture

**Electives Related to more than One
 Area of Interest**

- CECS 6230 – IT Operations
- CECS 6240 – Technology-Based Start-Up
- CECS 6430 – Advanced Software Architectures
- CECS 7010 – Computer Graphics
- CECS 7020 – Advanced Computer Graphics
- CECS 7130 – Advanced Computer Networks
- CECS 7530 – Data Mining and Data Warehousing
- CECS 7550 – Artificial Intelligence
- CECS 7570 – Computer Security
- EE 6720 – Pattern Recognition

DSP Elective Courses

- EE 7712 – Image Processing
- EE 7740 – Algorithms for DSP
- EE 7780 – Special Topics in Signal Processing

Thesis

- CECS 7971 -- Thesis
- CECS 7972 -- Thesis Extension

Project

- CECS 7900 – Project for Master in Computer Engineering
- CECS 7901 – Project Extension for Master in Computer Engineering



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**Software Engineering
 Area of Interest**

Core Courses

- EE 6120 – Computer Architecture
- EE 6130 – Data Communication Networks
- EE 6150 – Object Oriented Design
- EE 6510 – Software Engineering I
- CECS 6605 – Advanced Database Systems

**Electives Related to more than One
 Area of Interest**

- CECS 6230 – IT Operations
- CECS 6430 – Advanced Software Architectures
- CECS 7010 – Computer Graphics
- CECS 7020 – Advanced Computer Graphics
- CECS 7130 – Advanced Computer Networks
- CECS 7520 – Human Computer Interaction
- CECS 7530 – Data Mining and Data Warehousing
- CECS 7550 – Artificial Intelligence
- CECS 7570 – Computer Security
- EE 6720 – Pattern Recognition
- CIS 6715 – E-Commerce and Web Information System

SE Electives

- CECS 6750 – Software Testing
- CECS 7510 – Software Engineering II
- CECS 7802 – Special Topics in Software Engineering

Thesis

- CECS 7971 – Thesis
- CECS 7972 – Thesis Extension

Project

- CECS 7900 – Project for Master in Computer Engineering
- CECS 7901 – Project Extension for Master in Computer Engineering



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**Internet Engineering
 Area of Interest**

Core Courses

- EE 6120 – Computer Architecture
- EE 6130 – Data Communication Networks
- EE 6150 – Object Oriented Design
- CECS 6605 – Advanced Database Systems
- CECS 6760 – Internet Engineering I

**Electives Related to more than
 One Area of Interest**

- CECS 6230 – IT Operations
- CECS 6430 – Advanced Software Architectures
- CECS 7010 – Computer Graphics
- CECS 7020 – Advanced Computer Graphics
- CECS 7130 – Advanced Computer Networks
- CECS 7520 – Human Computer Graphics
- CECS 7530 – Data Mining and Data Warehousing
- CECS 7550 – Artificial Intelligence
- CECS 7570 – Computer Security
- EE 6720 – Pattern Recognition
- CIS – E-Commerce and Web Information System

IE Electives

- CECS 7230 – Network Security
- CECS 7560 – Internet Engineering II
- CECS 7804 – Special Topic in Internet Engineering

Thesis

- CECS 7971 -- Thesis
- CECS 7972 -- Thesis Extension

Project

- CECS 7900 – Project for Master in Computer Engineering
- CECS 7901 – Project Extension for Master in Computer Engineering