

Electrical & Computer Engineering

Computer Engineering

Master of Engineering: 30 Credits or 10 Courses

Students must take four computer engineering core courses and two core courses from either the communications and signal processing specialization or the [software engineering program](#).

Four additional technical electives must be approved by the academic advisor prior to registration. Students are encouraged to take a minimum of two ENPM-CE specific electives within this four.

Graduate Certificate in Engineering: 12 credits or 4 courses

Students pursuing a Graduate Certificate in Engineering must complete:

- **ENPM607** Computer System Design and Architecture
- **ENPM609** Microprocessor-Based Design
- **ENPM610** Digital VLSI Design

Plus one of the following:

- **ENPM611** Software Engineering
- **ENPM675** Operating System Design
- **ENPM676** VLSI Testing and Design for Testability

Computer Engineering Core Courses (choose four):

ENPM808T Compilers *or* **ENEE645** Compilers and Optimization

ENPM607 Computer System Design and Architecture

ENPM609 Microprocessor-Based Design

ENPM610 Digital VLSI Design

ENPM615 Embedded Systems

ENPM675 Operating System Design

Choose two additional Core Courses from Communications and Signal Processing or Software Engineering

Computer Engineering Technical electives (choose four):

ENPM676 VLSI Testing and Design for Testability

ENPM674 Design and Synthesis of Digital Systems

ENPM808D Network Systems Design

ENPM809P FPGA-based Digital System Design

Additional technical electives must be approved by academic advisor.

Preliminary 10-Course Plan

Electrical & Computer Engineering—Computer Engineering

Name:			Date:					
UID:								
Fall			Spring			Summer		
Course	Core/ Elective	Credit	Course	Core/ Elective	Credit	Course	Core/ Elective	Credit
Fall			Spring			Summer		
Course	Core/ Elective	Credit	Course	Core/ Elective	Credit	Course	Core/ Elective	Credit
Fall			Spring			Summer		
Course	Core/ Elective	Credit	Course	Core/ Elective	Credit	Course	Core/ Elective	Credit
Fall			Spring			Summer		
Course	Core/ Elective	Credit	Course	Core/ Elective	Credit	Course	Core/ Elective	Credit
Fall			Spring			Summer		
Course	Core/ Elective	Credit	Course	Core/ Elective	Credit	Course	Core/ Elective	Credit