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):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ENPM808T</td>
<td>Compilers or ENEE645 Compilers and Optimization</td>
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<tr>
<td>ENPM607</td>
<td>Computer System Design and Architecture</td>
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<tr>
<td>ENPM609</td>
<td>Microprocessor-Based Design</td>
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<tr>
<td>ENPM610</td>
<td>Digital VLSI Design</td>
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<tr>
<td>ENPM615</td>
<td>Embedded Systems</td>
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<td>ENPM675</td>
<td>Operating System Design</td>
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Choose two additional Core Courses from Communications and Signal Processing or Software Engineering

Computer Engineering Technical electives (choose four):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ENPM676</td>
<td>VLSI Testing and Design for Testability</td>
</tr>
<tr>
<td>ENPM674</td>
<td>Design and Synthesis of Digital Systems</td>
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<tr>
<td>ENPM808D</td>
<td>Network Systems Design</td>
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<td>ENPM809P</td>
<td>FPGA-based Digital System Design</td>
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Additional technical electives must be approved by academic advisor.
# Preliminary 10-Course Plan

## Electrical & Computer Engineering—Computer Engineering

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<th>Fall</th>
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<tr>
<td>Course</td>
<td>Core/Elective</td>
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Updated 1.25.18