STUDENTS ARE RESPONSIBLE FOR DETERMINING AND TAKING THE NECESSARY PREREQUISITES FOR THE CLASSES LISTED BELOW AS THEY DO CHANGE. FOR THE MOST UP-TO-DATE INFORMATION, CHECK WITH THE COMPUTER SCIENCE STUDENT OFFICE FOR CS COURSES AND THE ECE STUDENT OFFICE FOR ECE COURSES.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>UNITS</th>
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</thead>
<tbody>
<tr>
<td>“Capstone” Project (ECE or CS 189AB)</td>
<td></td>
</tr>
<tr>
<td>Sequence 1 (2 Courses Min)</td>
<td></td>
</tr>
<tr>
<td>Sequence 2 (2 Courses Min.)</td>
<td></td>
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<tr>
<td>Other Electives</td>
<td></td>
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<tr>
<td><strong>MIN. REQUIRED</strong></td>
<td>40</td>
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<tr>
<td><strong>TOTAL</strong></td>
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</tbody>
</table>

A total of at least ten courses (40 units minimum) including two sequences plus the Capstone Project.

Student’s Signature ___________________________ Date ______________

Faculty Advisor’s Signature ___________________ Date ______________

ECE Student Office ____________________________ Date ______________

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Updated: 9/13
* Choose two sequence topics:

<table>
<thead>
<tr>
<th>Check Here</th>
<th>Sequence Topics</th>
<th>Senior Elective Sequences</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Computer Networks</strong></td>
<td>Network Computing – <strong>Choose EITHER:</strong> ECE 155A &amp; ECE 155B OR CMPSC 176A &amp; CMPSC 176B</td>
</tr>
<tr>
<td></td>
<td><strong>Computer Systems Design</strong></td>
<td>ECE 153A OR CMPSC 153A: Hardware/Software Interface ECE 153B: Sensor and Peripheral Interface Design</td>
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<td></td>
<td><strong>Distributed Systems</strong></td>
<td>ECE 151 OR CMPSC 171: Distributed Systems <em>and one or both of the following courses:</em> ECE 155A OR CMPSC 176A: Intro to Computer Networks ECE 155B OR CMPSC 176B: Network Computing</td>
</tr>
<tr>
<td></td>
<td><strong>Multimedia</strong></td>
<td><strong>choose two or more of the following courses:</strong> ECE 178: Fundamentals of Computer Image Processing ECE 181B OR CMPSC 181B: Introduction to Computer Vision ECE 160 OR CMPSC 182: Multimedia Computing</td>
</tr>
<tr>
<td></td>
<td><strong>Programming Languages</strong></td>
<td>CMPSC 160: Translation of Programming Languages CMPSC 162: Programming Languages (Note Prereq. CMPSC 138 for both CMPSC 160 &amp; 162 (Jr. Yr.))</td>
</tr>
<tr>
<td></td>
<td><strong>Real-Time Computing &amp; Control</strong></td>
<td>ECE 147A: Feedback Control Systems - Theory and Design (Note Prereq. ECE 130ABC (Jr. Yr)) ECE 147B: Digital Control Systems - Theory and Design</td>
</tr>
<tr>
<td></td>
<td><strong>Very Large Scale Integration (VLSI)</strong></td>
<td>ECE 124A/122A: VLSI Principles OR 123: Hi-Per Digital Circuit Des. ECE 124D/122B: VLSI Architecture and Design</td>
</tr>
<tr>
<td></td>
<td><strong>Robotics</strong></td>
<td>ECE 179D: Introduction to Robotics: Dynamics and Control ECE 179P: Introduction to Robotics: Planning and Kinematics</td>
</tr>
</tbody>
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**Check Here**

*Required Senior “Capstone” Computer Systems Project: CMPSC 189A/B or ECE 189A/B (Two Qtrs of instruction – 4 Units & 4 Units)

**Acceptable Additional Courses**

- CMPSC 130B: Data Structures and Algorithms II
- CMPSC 138: Automata and Formal Languages
- CMPSC 153A / ECE 153A: Hardware/Software Interface
- CMPSC 160: Translation of Programming Languages
- CMPSC 162: Programming Languages
- CMPSC 165A: Artificial Intelligence
- CMPSC 165B: Machine Learning
- CMPSC 176A / ECE 155A: Intro. to Computer Communication Networks
- CMPSC 176B / ECE 155B: Network Computing
- CMPSC 176C: Advanced Topics in Internet Computing
- CMPSC 177: Computer Security
- CMPSC 178: Introduction to Cryptography
- CMPSC 181B / ECE 181B: Introduction to Computer Vision
- ECE 123: High-Performance Digital Circuit Design
- ECE 124A/122A: VLSI Principles
- ECE 124D/122B: VLSI Architecture and Design
- ECE 130A: Signal Analysis and Processing
- ECE 130B: Signal analysis and Processing
- ECE 147A: Feedback Control Systems – Theory and Design
- ECE 147B: Digital Control Systems – Theory and Design
- ECE 150: Mobile Embedded Systems
- ECE 151: Distributed Systems
- ECE 153B: Sensor and Peripheral Interface Design
- ECE 154B: Advanced Computer Architecture
- ECE 156B: Computer-Aided Design of VLSI Circuits
- ECE 160: Multimedia Systems
- ECE 178: Fundamentals of Computer Image Processing
- ECE 179D: Instruction to Robotics: Dynamics and Control
- ECE 179P: Introduction to Robotics: Planning and Kinematics

*Minimum CE Elective Units Required: 40*

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Updated: 10/14