MINOR IN COMPUTER ENGINEERING

REQUIREMENTS

The curriculum consists of prerequisite, core, and elective courses. Excluding prerequisite courses, 18 credits are required for the minor; for students entering in fall 2020 or after, at least 9 of those credits must be in courses not required for the major.

Students must have a grade-point average of 2.2 or above and elective ECE courses taken for the minor in order to fulfill minor requirements.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td><strong>Prerequisites</strong></td>
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<tr>
<td>APSC 2113</td>
<td>Engineering Analysis I ¹</td>
<td>1</td>
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<tr>
<td>ECE 1120</td>
<td>C Programming for Electrical and Computer Engineering</td>
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<tr>
<td>PHYS 1022</td>
<td>University Physics II ¹</td>
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<tr>
<td>or PHYS 1026</td>
<td>University Physics II with Biological Applications</td>
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<td></td>
<td><strong>Core</strong></td>
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<tr>
<td>ECE 2110</td>
<td>Circuit Theory</td>
<td></td>
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<tr>
<td>ECE 2115</td>
<td>Engineering Electronics</td>
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<tr>
<td>ECE 2140</td>
<td>Design of Logic Systems I</td>
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<td></td>
<td><strong>Electives</strong></td>
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<td>Two of the following:</td>
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<tr>
<td>ECE 3130</td>
<td>Digital Electronics and Design</td>
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<tr>
<td>ECE 3135</td>
<td>Design of Logic Systems II</td>
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<tr>
<td>ECE 3220</td>
<td>Introduction to Digital Signal Processing ¹</td>
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<tr>
<td>ECE 3310</td>
<td>Introduction to Electromagnetics</td>
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<td>ECE 3515</td>
<td>Computer Organization</td>
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<td>ECE 3520</td>
<td>Microprocessors: Software, Hardware, and Interfacing</td>
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<tr>
<td>ECE 3525</td>
<td>Introduction to Embedded Systems ¹</td>
<td></td>
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<tr>
<td>ECE 4140</td>
<td>VLSI Design and Simulation ¹</td>
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</table>

¹ Requires additional prerequisites.

² ECE 4415 Introduction to Computer Networks and ECE 4425 Data Communications Laboratory must be taken concurrently.

To earn a minor in computer engineering, a student must have a GPA of 2.20 or higher in the ECE courses defining the minor.

Visit the program website (https://www.ece.seas.gwu.edu/minor-computer-engineering) for additional information.