# Electrical and Computer Engineering Curriculum

## Electrical Engineering Option

### Freshman Year

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>01:160:159</td>
<td>General Chemistry for Engineers</td>
<td>3</td>
<td>14:440:127</td>
<td>Intro to Computers for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>01:160:171</td>
<td>Introduction to Experimentation</td>
<td>1</td>
<td>14:440:221</td>
<td>Engineering Mechanics</td>
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<tr>
<td>01:355:101</td>
<td>Expository Writing</td>
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<td>01:640:152</td>
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<td>01:750:123</td>
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<td>01:750:124</td>
<td>Analytical Physics IB</td>
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### Sophomore Year

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<tr>
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<tbody>
<tr>
<td>14:332:223</td>
<td>Principles of EE I Lab</td>
<td>M 1</td>
<td>14:332:224</td>
<td>Principles of EE II Lab</td>
<td>M 1</td>
</tr>
<tr>
<td>01:750:227</td>
<td>Analytical Physics IIA</td>
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<td>01:640:244</td>
<td>Differential Equations</td>
<td>4</td>
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<tr>
<td>01:750:229</td>
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### Junior Year

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<tbody>
<tr>
<td>14:332:347</td>
<td>Linear Sys. &amp; Signals Lab</td>
<td>M 1</td>
<td>14:332:393</td>
<td>Professionalism/Ethics</td>
<td>M 1</td>
</tr>
<tr>
<td>14:332:363</td>
<td>Electronic Devices Lab</td>
<td>M 1</td>
<td>14:332:368</td>
<td>Digital Electronics Lab</td>
<td>M 1</td>
</tr>
<tr>
<td><strong>:</strong>:__</td>
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<td>14:332:__</td>
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<tbody>
<tr>
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<td>14:332:448</td>
<td>Capstone Design elective</td>
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<td>14:332:__</td>
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<td>14:332:__</td>
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<td><strong>:</strong>:__</td>
<td>Science Math Eng elective</td>
<td>M 3</td>
<td><strong>:</strong>:__</td>
<td>General elective</td>
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<td><strong>:</strong>:__</td>
<td>Technical elective</td>
<td>M 3</td>
<td>01:220:102</td>
<td>Microeconomics</td>
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<td>Hum/Soc elective (200+)</td>
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<td><strong>:</strong>:__</td>
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</table>

**Total degree credits: 123**

Electives consists of: four (4) courses of electrical electives, two (2) courses of Technical electives, one (1) course of Science Math Eng’g elective, two (2) courses of lower level Hum/Soc electives, two (2) courses of upper level Hum/Sci electives, and one (1) course of general elective. For more info on humanity electives, see [http://soe.rutgers.edu/oaa/electives](http://soe.rutgers.edu/oaa/electives). **Residency requirement is 54 credits**
# Electrical and Computer Engineering Curriculum

## Computer Engineering Option

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<td>14:332:452</td>
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<td>14:332:345</td>
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<td>14:332:434</td>
<td>Intro to Comp. Systems</td>
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<td>14:332:351</td>
<td>Programming Method. II</td>
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**Total degree credits:** 122

Electives consists of: two (2) courses of computer electives, one (1) course of technical elective, one (1) course of either computer or technical elective, one (1) course of Science Math and Engineering elective, two (2) lower level Hum/Soc electives, and two (2) upper level Hum/Soc electives. For more info on humanity electives, see [http://soe.rutgers.edu/oaa/electives](http://soe.rutgers.edu/oaa/electives). Residency requirement is 50 credits.