There is a great need for highly qualified teachers of science and technology at the secondary school level. Nationwide, middle and high schools are facing a shortage of technology teachers. The Technology Education (TEED) program is a partnership between NJIT and Rutgers University, Newark, offering a degree in Engineering Technology and an instructional certification with the Teacher of Technology Education (1810) endorsement.

The technology education curriculum provides an in-depth knowledge of various engineering technology disciplines in addition to the required education courses. Students will take a core group of technical courses, and have an ability to concentrate in one or more of the Engineering Technology options. Students will also complete their degree with a 6 credit student teaching course.

The full four-year curriculum for the program is shown below. Students who wish to enter the program as a transfer student are typically students with an A.A.S. degree in an Engineering Technology program or an A.S. program in a technical discipline. These students should have completed most or all of the courses, or their equivalents, in the first two years of the program as shown below. In the case of all students, both four-year and transfer, a minimum of 123 credits is required for graduation.

(123 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>First Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>1st Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>CS 106</td>
<td>Roadmap to Computing Engineers</td>
<td>3</td>
</tr>
<tr>
<td>HUM 101</td>
<td>English Composition: Writing, Speaking, Thinking I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 102</td>
<td>General Physics</td>
<td>3</td>
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<tr>
<td>PHYS 102A</td>
<td>General Physics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MATH 138</td>
<td>General Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MET 103</td>
<td>Engineering Graphics and Intro. to CAD</td>
<td>2</td>
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<tr>
<td>ET 101</td>
<td>Introduction to Engineering Technology</td>
<td>0</td>
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<tr>
<td>FRSH SEM</td>
<td>Freshman Seminar</td>
<td>0</td>
</tr>
<tr>
<td><strong>Term Credits</strong></td>
<td></td>
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<tr>
<td><strong>2nd Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 238</td>
<td>General Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 103</td>
<td>General Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 103A</td>
<td>General Physics Laboratory</td>
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<tr>
<td>ECET 201</td>
<td>Circuits I</td>
<td>3</td>
</tr>
<tr>
<td>MET 105</td>
<td>Applied Computer Aided Design</td>
<td>2</td>
</tr>
<tr>
<td>HUM 102</td>
<td>English Composition: Writing, Speaking, Thinking II</td>
<td>3</td>
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<td><strong>Term Credits</strong></td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Second Year</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>1st Semester</strong></td>
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<td></td>
</tr>
<tr>
<td>MET 235</td>
<td>Statics for Technology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 301</td>
<td>Chemical Technology</td>
<td>3</td>
</tr>
<tr>
<td>ECET 215</td>
<td>Introduction to Digital Electronics</td>
<td>3</td>
</tr>
<tr>
<td>R300 292</td>
<td>Social Foundation</td>
<td>3</td>
</tr>
<tr>
<td>R300 295</td>
<td>Urban Adol Psych</td>
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<tr>
<td><strong>Term Credits</strong></td>
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<tr>
<td><strong>2nd Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>MET 237</td>
<td>Strength of Materials for Technology</td>
<td>3</td>
</tr>
<tr>
<td>History and Humanities GER 200 level (<a href="http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-200-level">http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-200-level</a>)</td>
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<td>R300 298</td>
<td>21st Century Urban Educator</td>
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<tr>
<td>ME 215</td>
<td>Engineering Materials and Processes</td>
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<td>IE 224</td>
<td>Production Process Design</td>
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### Technical Elective

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>STS 310</td>
<td>Technology and Human Values</td>
<td>3</td>
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<tr>
<td>R300 390</td>
<td>Understand Ed Eval</td>
<td>3</td>
</tr>
<tr>
<td>R300 410</td>
<td>Ict In Secondary Sch</td>
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<tr>
<td>CPT 325</td>
<td>Medical Informatics Technology</td>
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<tr>
<td>R300 388</td>
<td>Curriculum &amp; Instruct</td>
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**Term Credits**: 18

### 2nd Semester

**History and Humanities GER 300+ level**

<table>
<thead>
<tr>
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<td>Statistics for Technology</td>
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<tr>
<td>or MNET 315</td>
<td>or Industrial Statistics</td>
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<tr>
<td>R300 386</td>
<td>Methods of Teaching Sec School</td>
<td>3</td>
</tr>
<tr>
<td>CET 313</td>
<td>Construction Procedures I</td>
<td>3</td>
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<tr>
<td>IE 355</td>
<td>Human Factors</td>
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</table>

**Term Credits**: 15

### Fourth Year

**1st Semester**

**Humanities and Social Science Senior Seminar GER**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CET 317</td>
<td>Construction Computing</td>
<td>3</td>
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<tr>
<td>Technical ET Elective (3xx or 4xx)</td>
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**Term Credits**: 12

### 2nd Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CET 314</td>
<td>Construction Procedures II</td>
<td>3</td>
</tr>
<tr>
<td>Technical ET Elective (3xx or 4xx)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Technical Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>R300 418</td>
<td>Secondary Practicum(^2)</td>
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<tr>
<td>R300 419</td>
<td>Clinical Practice</td>
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**Term Credits**: 12

### Fifth Year

**1st Semester**

<table>
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<tr>
<th>Course</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>R300 487</td>
<td>Student Teaching &amp; Seminar</td>
<td>3</td>
</tr>
<tr>
<td>R300 488</td>
<td>Clinical II: St Teaching Exp</td>
<td>3</td>
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</tbody>
</table>

**Term Credits**: 6

**Total Credits**: 123

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1. Apply Rutgers – Newark Urban Teacher Education Program
2. Praxis must be taken prior to taking this class.