Engineering with **Electrical** Concentration  
(Department of Engineering)

### Major Requirements

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
<th>Semester Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>[ENGR 101]</strong> Engineering Graphics</td>
<td>2</td>
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</tr>
<tr>
<td><strong>[ENGR 102]</strong> Introduction to Engineering</td>
<td>2</td>
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</tr>
<tr>
<td><strong>[ENGR 201]</strong> Group Orientation</td>
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<tr>
<td><strong>[ENGR 231]</strong> Engineering Statics</td>
<td>3</td>
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<tr>
<td><strong>[ENGR 242]</strong> Experimental Methods</td>
<td>3</td>
<td></td>
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<tr>
<td><strong>[ENGR 254]</strong> Materials Engineering</td>
<td>4</td>
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</tr>
<tr>
<td><strong>[ENGR 262]</strong> Circuit Analysis</td>
<td>4</td>
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</tr>
<tr>
<td><strong>[ENGR 290]</strong> Engineering Economics</td>
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<td></td>
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<tr>
<td><strong>[ENGR 301]</strong> Seminar I</td>
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<tr>
<td><strong>[ENGR 302]</strong> Seminar II</td>
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<tr>
<td><strong>[ENGR 366]</strong> Control Systems</td>
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</tr>
<tr>
<td><strong>[ENGR 488]</strong> Project III</td>
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<tr>
<td><strong>[ENGR 489]</strong> Project IV</td>
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<td></td>
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<tr>
<td><strong>[CHEM 105]</strong> General Chemistry I</td>
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<tr>
<td><strong>[MATH 111]</strong> Calculus I</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td><strong>[MATH 112]</strong> Calculus II</td>
<td>4</td>
<td></td>
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<tr>
<td><strong>[MATH 211]</strong> Calculus III</td>
<td>4</td>
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<tr>
<td><strong>[MATH 261]</strong> Linear Algebra</td>
<td>3</td>
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<tr>
<td><strong>[MATH 308]</strong> Differential Equations</td>
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<tr>
<td><strong>[PHYS 211]</strong> General Physics I</td>
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<tr>
<td><strong>[PHYS 212]</strong> General Physics II</td>
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</table>

**Electrical Concentration**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Semester Completed</th>
</tr>
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<tbody>
<tr>
<td><strong>[COSC 181]</strong> Computer Programming I</td>
<td>3</td>
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<tr>
<td><strong>[ENGR 288]</strong> Project I</td>
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<tr>
<td><strong>[ENGR 340]</strong> Analog Electronics</td>
<td>3</td>
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</tr>
<tr>
<td><strong>[ENGR 342]</strong> Microprocessor Applications</td>
<td>4</td>
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</tr>
<tr>
<td><strong>[ENGR 349]</strong> Digital Electronics</td>
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<tr>
<td><strong>[ENGR 364]</strong> Electrical Devices</td>
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<tr>
<td><strong>[ENGR 365]</strong> Linear Systems</td>
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<tr>
<td><strong>[ENGR 367]</strong> Electromagnetics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>[ENGR 369]</strong> Communication Systems</td>
<td>3</td>
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</tr>
<tr>
<td><strong>[ENGR 388]</strong> Project II</td>
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General Education requirements on reverse side  
(revised May 2007)
Engineering with **Electrical** Concentration  
(Department of Engineering)

**General Education Requirements**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
<th>Semester Completed</th>
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<tbody>
<tr>
<td>First Year Seminar</td>
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</tr>
<tr>
<td>Oral Communications</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Created and Called for Community</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Mathematical Sciences ([MATH 111])</td>
<td>3 or 4</td>
<td>met by major</td>
</tr>
<tr>
<td>Laboratory Science ([CHEM 105])</td>
<td>3 or 4</td>
<td>met by major</td>
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<tr>
<td>Science, Technology &amp; the World</td>
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<td>waived</td>
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<tr>
<td><strong>Two of the following:</strong></td>
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<tr>
<td>Social Science (3 credits)</td>
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<tr>
<td>European History (3 credits)</td>
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<tr>
<td>United States History (3 credits)</td>
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<tr>
<td>Literature</td>
<td>3</td>
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<tr>
<td>Philosophy and Religion</td>
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<tr>
<td>Arts</td>
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<td>waived</td>
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<tr>
<td>Language/Cross Cultural</td>
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<td></td>
</tr>
<tr>
<td>First Semester of Language</td>
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<td></td>
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<tr>
<td>Second Semester of Language</td>
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<tr>
<td><strong>One of the following:</strong></td>
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<tr>
<td>Third Semester of Language</td>
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<tr>
<td>Cross Cultural</td>
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<tr>
<td>Non-Western Studies</td>
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<tr>
<td>Bible</td>
<td>3</td>
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<td>Christian Beliefs</td>
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<tr>
<td>Health and Physical Fitness</td>
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<tr>
<td>Introduction to Wellness</td>
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<tr>
<td>Activity Course</td>
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<tr>
<td><strong>One of the following:</strong></td>
<td>3</td>
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</tr>
<tr>
<td>Ethics (3 credits)</td>
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<tr>
<td>World Views (3 credits)</td>
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<td>Pluralism in Contemporary Society (3 credits)</td>
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<tr>
<td>Writing Enriched Course</td>
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*The choice of either a third semester of a language, a cross cultural, or a non-western studies course applies only to the Engineering major.*

**SUMMARY OF DEGREE REQUIREMENTS:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>General Education</td>
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</tr>
<tr>
<td>Major Core Requirements</td>
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<tr>
<td>Concentration Requirements</td>
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<td><strong>Total</strong></td>
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Major requirements on reverse side  
(revised May 2007)