Bachelor of Science (B.S.) Major in Electrical Engineering (Micro and Nano Devices and Systems Concentration)

Minimum required: 137 semester hours

General Requirements

1. In order to declare Electrical Engineering as a major, students must meet one of the following prerequisites:
   a. ACT Math score of 24 or higher,
   b. SAT Math score of 520 (re-centered) or higher, or
   c. Credit for one of the following math courses with a grade of “C” or higher:
      - MATH 1315 College Algebra 3
      - MATH 1317 Plane Trigonometry 3
      - MATH 1319 Mathematics for Business and Economics I 3
      - MATH 1329 Mathematics for Business and Economics II 3

   Students who do not meet the above prerequisites may choose Pre-Electrical Engineering as their major. Pre-Electrical Engineering students who complete one of the following math courses with a grade of “C” or higher may declare Electrical Engineering as their major:
   - MATH 1315 College Algebra 3
   - MATH 1317 Plane Trigonometry 3
   - MATH 1319 Mathematics for Business and Economics I 3
   - MATH 1329 Mathematics for Business and Economics II 3

2. All Electrical Engineering majors must complete Electrical Engineering (EE) course prerequisites with a grade of “C” or higher.

3. A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.

4. If two years of the same language are taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

5. Electrical Engineering degrees include all the courses required for an Applied Mathematics Minor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>First Semester</th>
<th>Second Semester</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1135</td>
<td>3 PHYS 1430</td>
<td>4 English Literature 3</td>
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<td></td>
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<tr>
<td>CHEM 1310</td>
<td>1 ENGR 2300</td>
<td>3 HIST 1320 3</td>
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<tr>
<td>COMM 12472</td>
<td>3 MATH</td>
<td>4 PHIL 1305 or 1320</td>
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Freshman Hours: 15

Sophomore Hours: 17

Junior Hours: 3

Senior Hours: 14

Total Hours: 137
Departmental requirements that also satisfy the general education core curriculum requirements for the following components:

- Mathematics: MATH 2471
- Life and physical sciences: PHYS 1430 and PHYS 2425
- Social and behavioral sciences: ECO 2301, ECO 2314 or ECO 2315

See the Academic Services section of this catalog for the English literature requirements.

A minimum of eight (8) hours of approved, senior-level Electrical Engineering electives are required.