ELECTRONICS - MINOR

College of Aeronautics and Engineering
www.kent.edu/cae

About This Program
The Electronics minor gives students a basic knowledge in programming, circuits, digital design, electronic devices and control of systems. It also illustrates how digital combinational and sequential circuits work and provides students with some applications of these types of circuits. The minor complements studies in computer science, physics and instrumentation, as well as student interest in a general background on how computers work.

Contact Information
- cae@kent.edu | 330-672-2892
- Speak with an Advisor

Program Delivery
- Delivery:
  • In person
- Location:
  • Kent Campus

Admission Requirements
Admission to a minor is open to students declared in a bachelor’s degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements
Minor Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ENGR 33222</td>
<td>DIGITAL DESIGN FOR COMPUTER ENGINEERING</td>
<td>3</td>
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<tr>
<td>ENGR 33440</td>
<td>ELECTRONIC DEVICES</td>
<td>3</td>
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<tr>
<td>ENGR 33442</td>
<td>ELECTRONIC DEVICES LABORATORY</td>
<td>1</td>
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<tr>
<td>Electrical Circuits Electives, choose from the following:</td>
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<tr>
<td>EERT 12000</td>
<td>ELECTRIC CIRCUITS I and ELECTRIC CIRCUITS II</td>
<td>4-7</td>
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<tr>
<td>ENGR 21020</td>
<td>SURVEY OF ELECTRICITY AND ELECTRONICS and SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY</td>
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<tr>
<td>ENGR 35500</td>
<td>SIGNALS AND CIRCUITS and SIGNALS AND CIRCUITS LABORATORY</td>
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<td>Minor Electives, choose from the following:</td>
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<tr>
<td>CAE 22095</td>
<td>SPECIAL TOPICS IN AERONAUTICS AND ENGINEERING</td>
<td>6-7</td>
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| CAE 35095 | SPECIAL TOPICS IN AERONAUTICS AND ENGINEERING  | | 1
| CS 13001  | COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING | 2 |

Minimum Total Credit Hours: 17

Graduation Requirements
Minimum Minor GPA: 2.000
Minimum Overall GPA: 2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes
Graduates of this program will be able to:

1. Gain a basic knowledge of electronic components and their applications.
2. Gain a basic understanding of how to use components to control processes.