The Electrical Technology program prepares students to enter the rapidly expanding field of electronics. Their studies qualify them to work in the exciting fields of electronic design, computer repair, communications, systems control, and technical sales and service. This program stresses electronic analysis and design using digital and analog electronics, instrumentation, and programming. Laboratory experience is a part of each of the courses in this program.

Graduates will be able to:
- Design, construct, and analyze electronic circuits;
- Demonstrate the use of electrical and mechanical equipment and instrumentation;
- Demonstrate proficiency in the use of computer software for drawing, simulation, and programming;
- Produce proper documentation of experiments, projects, and programs.

For students who decide to go on for further education after the A.A.S. degree, many four-year colleges now offer bachelor degree programs in technology and technical education specifically designed for graduates in electrical technology. High school or equivalent preparation required: Two years of mathematics including algebra and either geometry or intermediate algebra. Students who don’t have this preparation will be able to get it here, but it may take longer to complete the program.

### Program Requirements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
<th>Technical Concentration (ELEC 1010, 1500, 1510, 2000, 2010, 2020, 2030, 2070; MECH 1050; TECH 1030, 1080 and Technical Electives)**</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (ENGL 1010 and 1020 or 1030)*</td>
<td>6</td>
<td>41-42</td>
</tr>
<tr>
<td>Mathematics (MATH 1230-1240 or higher)*</td>
<td>6</td>
<td>63-64</td>
</tr>
<tr>
<td>Social Sciences electives</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Physics (PHYS 1010)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Social Sciences or Humanities</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Students must have a good working knowledge of WORD (word processing) and EXCEL (spreadsheets and charts) for science and technology courses. If not already required in their program, students who lack these skills should still take TECH 1110 and TECH 1120 to make up the deficiency. Challenge exams for these courses are also available.

### Sample Sequence:

(Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.)

**First Semester**
- English (ENGL 1010) 3
- Mathematics (MATH 1230 or higher) 3
- Manufacturing Methods (TECH 1030) 3
- Engineering Graphics (MECH 1050) 3
- Electricity (ELEC 1010) 4
- Manufacturing Methods Lab (TECH 1080) 1

**Second Semester**
- English (ENGL 1020) 3
- Mathematics (MATH 1240 or higher) 3
- Digital Electronics (ELEC 1510) 4
- Elementary Physics (PHYS 1010) 4
- Solid State Electronics (ELEC 1500) 4

**Third Semester**
- Social Sciences elective 3
- Linear Electronics (ELEC 2010) 4
- Electronic Construction (ELEC 2000) 1
- Technical Elective I** 3
- Microprocessors (ELEC 2030) 4

**Fourth Semester**
- Social Sciences or Humanities elective 3
- Industrial Electronics (ELEC 2020) 4
- Technical Elective II** 2 or 3
- Industrial Data Acquisition (ELEC 2070) 4

**Footnotes:**

*Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and Math courses.

**Student chooses either MECH 2050 or GLSS 2010 for Technical Elective I, and either ELEC 2050 or GLSS 2020 for Technical Elective II.