Engineering Technology: General

Engineering Technology is that part of the engineering field which blends scientific and engineering knowledge with technical skills in research, development and production. CSM offers the General Education, mathematics, science, engineering, and many of the technical courses required to meet lower division requirements in Engineering Technology and prepare the student for transfer to a baccalaureate institution for a degree in Engineering Technology. The Associate degree alone prepares students for employment as engineering technicians, who work with or under the direction of engineers.

Career Opportunities

Career opportunities exist largely with manufacturers of electrical and electronic equipment, aircraft/aircraft parts, machinery, scientific instruments, chemical, motor vehicles, fabricated metal products, and primary metals. Non-manufacturing opportunities exist with engineering and architectural firms, research and testing facilities, and business services in which engineering work is done on a contract basis for organizations in other sectors of the economy. Additional opportunities for employment exist in the communications, utilities, and construction industries; and with federal, state and local government agencies.

Program Learning Outcomes

Students completing this program will be able to:
1. Identify, analyze, and solve technical problems in an area of specialization;
2. Conduct, analyze, and interpret experiments;
3. Work effectively in teams.

Major Requirements

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<tr>
<th>Required Core Courses: 20 units</th>
<th>Units</th>
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<tbody>
<tr>
<td>ENGR 210 Engineering Graphics</td>
<td>4 units</td>
</tr>
<tr>
<td>MATH 241 Applied Calculus I</td>
<td>5 units</td>
</tr>
<tr>
<td>MATH 242 Applied Calculus II</td>
<td>3 units</td>
</tr>
<tr>
<td>PHYS 210 General Physics I</td>
<td>4 units</td>
</tr>
<tr>
<td>PHYS 220 General Physics II</td>
<td>4 units</td>
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Required Selective Courses: Plus, select 6 units from an area of technology specialization. Suggested Electives:

<table>
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<th>Units</th>
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<tr>
<td>ACTG 100 Accounting Procedures</td>
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<tr>
<td>ENGR 100 Introduction to Engineering</td>
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And required General Education coursework and electives as needed to meet the minimum 60 units required for the Associate degree.