## Pre-Engineering Technology Diploma

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>COURSE TITLE</th>
<th>TOTAL CLOCK HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 8709</td>
<td>Introduction to Engineering Design</td>
<td>120</td>
</tr>
<tr>
<td>ENG 8710</td>
<td>Principles of Engineering</td>
<td>120</td>
</tr>
<tr>
<td>ENG 8716</td>
<td>Engineering Design and Development</td>
<td>120</td>
</tr>
<tr>
<td>ENG 8711</td>
<td>Digital Electronics</td>
<td>120</td>
</tr>
<tr>
<td>ENG 8715</td>
<td>Aerospace</td>
<td>120</td>
</tr>
</tbody>
</table>

Students may enroll in one or more of the following courses:

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>ENG 4417</td>
<td>Pre-Calculus</td>
<td>120</td>
</tr>
<tr>
<td>ENG 4611</td>
<td>AP Calculus AB</td>
<td>120</td>
</tr>
<tr>
<td>ENG 4412</td>
<td>Algebra II</td>
<td>120</td>
</tr>
<tr>
<td>ENG 5211</td>
<td>Physics</td>
<td>120</td>
</tr>
<tr>
<td>ENG 5051</td>
<td>Chemistry</td>
<td>120</td>
</tr>
<tr>
<td>MED 5035</td>
<td>AP Biology</td>
<td>120</td>
</tr>
<tr>
<td>MED 5055</td>
<td>AP Chemistry</td>
<td>120</td>
</tr>
<tr>
<td>ENG 8713</td>
<td>Civil Engineering &amp; Architecture</td>
<td>120</td>
</tr>
<tr>
<td>ENG 4740</td>
<td>Statistics &amp; Probability</td>
<td>120</td>
</tr>
</tbody>
</table>

For enrollment information
Call 918-333-2422 or visit www.tctc.org.

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**TCTC Approvals & Accreditations**

The Oklahoma State Board of Career and Technical Education.
Tri County Area Vocational-Technical School was created by the 1966 Legislature and approved by the State Board of Education in 1967.

The United States Office of Education, Vocational Division.
Vocational training is offered in accordance with the standards prescribed by the Federal Vocational Smith-Hughes Act and all subsequent acts.

Tri County Technology Center is approved for Veteran’s Education Benefits, Pell Grants, WIA, and BIA programs.

The Vocational Rehabilitation Division of the State Department of Education.

The Commission of Institutions of Higher Education of the North Central Association of Colleges and Schools.

Project Lead the Way
Program Description
The Pre-Engineering Program is designed to prepare high school students for success in colleges of engineering. Math and science are combined with engineering related classes to provide students with the academics they will need and an understanding of engineering to help them decide if this is truly the field they wish to pursue.

Benefits to Students
• Awareness of high-demand, high-wage careers
• Exposure to the latest computer software and equipment used by universities and the industry
• Hands-on activities that utilize team effort
• Skills required for jobs and post secondary education
• Opportunity to earn transcripted college credit

Career Opportunities
• Aerospace Engineering
• Agricultural Engineering
• Biomedical Engineering
• Chemical Engineering
• Civil Engineering
• Computer Engineering
• Electrical Engineering
• Environmental Engineering
• Industrial Engineering
• Materials Engineering
• Mechanical Engineering
• Mining Engineering
• Nuclear Engineering
• Petroleum Engineering

Student Organization
• F.I.R.S.T. Robotics
• TSA

Program Length
May vary (see counselor)

Helpful Attributes & Abilities
• Good problem solving skills
• Good at working with hands
• Teamwork
• Safety oriented
• Good work ethic with positive attitude
• Strong interpersonal & communications skills

Schedule
Monday through Friday classes
Half day scheduling available

Who Can Enroll
High School Sophomores, Juniors or Seniors

Approximate Program Cost
High School (in district): $0.00

* High School students need to visit with their instructor for any additional expenses not included in the total program cost.

“My lifelong dream is to design roller coasters. Thanks to the Pre-Engineering program at Tri County Tech I had realistic expectations about what it takes to earn a degree in engineering when I enrolled in the program at OSU.”

OSU College of Engineering Student