Pre-Engineering Academy
For more information
580-255-2903 Ext. 230
Toll-free at 1-888-607-2446
www.rrtc.edu

Pre-Engineering Academy

If You like...
• Asking questions and seeking answers
• Solving problems and making discoveries
• Designing experiments and collecting data
• Building models and creating projects
• Utilizing teamwork and exhibiting leadership

If You are...
• Good at mathematics and science
• Creative, innovative and inquisitive
• Interested in technology and its applications
• Highly motivated and willing to work
• Preparing for a 4-year college or graduate degree
• Interested in challenging courses and college credit opportunities

Explore
Question
Imagine
Build

Engineering Careers are Available in...
• Aerospace
• Bioengineering/Biomedical
• Chemical
• Civil
• Computer Science
• Electrical and Electronic
• Environmental
• Industrial and Manufacturing
• Materials
• Mechanical
• And many more!

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www.pltw.org
What is the Pre-Engineering Academy?

Students in the Pre-Engineering Academy will study pre-engineering through Project-Lead-the-Way® curriculum that introduces them to concepts and principles of engineering with a strong emphasis on the development of problem solving skills. The students will learn how engineers apply math, science, and technology to solve problems. The curriculum has been developed with the goal of preparing students to successfully advance to the college level. Students will take four Project-Lead-the-Way® courses and four advanced science and math courses as listed in the curriculum to the right.

Students also have the opportunity to participate on the area FIRST® Robotics team. Students work together to create a viable robot that meets certain criteria and can perform particular functions.

So, how do you get there?

- Tell your counselor you want in this academy (as early as the 8th grade)
- Take the classes your counselor recommends
- Keep your grades up
- Do your best on all standardized tests and take the ACT test your sophomore year
- During your sophomore year, complete the application to the Pre-Engineering Academy

Project Lead the Way®

Course Descriptions

<table>
<thead>
<tr>
<th>Grade 11</th>
<th>Grade 12</th>
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<tbody>
<tr>
<td><strong>Project Lead the Way Courses</strong></td>
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<tr>
<td>Introduction to Engineering Design*</td>
<td>Engineering Specialization Course - Digital Electronics</td>
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<tr>
<td>Principles of Engineering*</td>
<td>Engineering Design &amp; Development</td>
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<tr>
<td>Math/Science Courses</td>
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<tr>
<td>Trigonometry / Pre-Calculus</td>
<td>AP Calculus or College Algebra**</td>
</tr>
<tr>
<td>Physics</td>
<td>Advanced Placement Physics</td>
</tr>
</tbody>
</table>

*Meets OHLAP Computer Science Requirements.
**College Algebra is available from Cameron University. Students must meet Cameron’s admission and enrollment requirements.

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Red River Technology Center...Taking dreams and building realities.