



PLTW Engineering

The Project Lead the Way PLTW Engineering Academy allows students to engage in open-ended problem-solving, learn and apply the engineering design process, and use the same industry-leading technology and software as are used in the world's top companies. Students are immersed in design as they investigate topics such as sustainability, mechanics, forces, structures, aerodynamics, digital electronics and circuit design, manufacturing, and environment which gives them an opportunity to learn about different engineering disciplines before beginning postsecondary education or careers. They learn about how to apply STEM knowledge skills and habits of mind to make the world a better place through innovation. Project Lead the Way classes promote hands-on experience applying math and science concepts to solving real-life problems.

Job Outlook

High school and 2-year college:

CAD Technician, Machine Tool Technician, Robot Technician, Electrical Technician and Surveying Technician.

Four-year college or more:

Any Engineering degree, Engineering is the most versatile degree to receive for a career in business and industry

Real World Experience

- Job-shadow, internship, or Exploring program
- Work Seminar / Employment Skills

Foundational Required Courses

(Must have 3 PLTW courses)

- Introduction to Engineering Design
- Principles of Engineering
- Robotics

Choose at Least One of the Following

- Aerospace Physics
- Civil Engineering & Architecture
- Computer Integrated Manufacturing
- Digital Electronics
- Engineering Design & Development

Recommended Courses

- Machine Tool Technology
- Advanced Machine Tool Technology
- Basic Welding
- Advanced Welding
- Electricity & Electronics I
- Global Perspectives

Visit our website for more information at BemidjiCareerAcademies.com

All students are REQUIRED to complete 40 hours of these in order to graduate with an ACADEMY AWARD.

JOB-SHADOWING • INTERNSHIP • WORK-BASED LEARNING