

PLTW high school courses have several underlying content areas in common. As students progress through the sequence they will become proficient in:

- working as a contributing member of a team
- leading a team
- using appropriate written and/or visual mediums to communicate with a wide variety of audiences
- public speaking
- listening to the needs and ideas of others
- understanding the potential impact their ideas and products may have on society
- thinking

- problem solving
- managing time, resources and projects
- researching
- going beyond the classroom for answers
- data collection and analysis
- Preparing for two-and four-year college programs

We are excited to bring this opportunity to our students at Northwestern High School. It is our desire that, in addition to providing rigorous and relevant curriculum, we will connect our students with academic and business partnerships. Through articulation agreements and internships we envision opportunities that will truly be positive for all parties. We appreciate whatever support you can give to us in this exciting endeavor.

Contact info:

Northwestern High School
7473 North Elyria Road
West Salem, OH 44287
Phone: (419) 846-3833

Principal: Mike Burkholder: nrws_burkhol@tccsa.net
Guidance Counselor: Beth Plank: nrws_plank@tccsa.net
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Northwestern Local
Schools

Biomedical
Curriculum

**"Project Lead
The Way"**

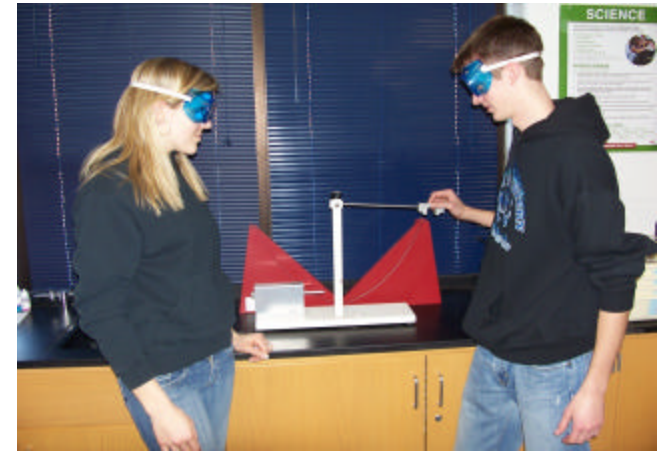


Husky PLTW Mission Biomedical

Utilizing the nationally renowned Project Lead the Way biomedical curriculum, we will create opportunities for our students who are interested in pursuing a career in biological sciences, emergency services, healthcare, or medicine. We will work to build dynamic partnerships with local professional and business partners to help prepare this group of students to be successful in the biological sciences. PLTW has developed a four year sequence of courses which, when combined with college preparatory mathematics and science courses in high school, introduces students to the scope, rigor and discipline of biomedical careers prior to entering college.

Our Goals

- Increase the number of young people who pursue biological science, emergency services, healthcare, or medicine programs requiring a four or two - year college degree.
- Provide equitable and inclusive opportunities for all academically qualified students.
- Provide clear standards and expectations for student success in the program.
- Provide leadership and support that will produce continuous improvement and innovation in the program.
- Contribute to the continuance of America's national prosperity.



The courses are:

- Principals of Biomedical Sciences
- Human Body Systems
- Medical Intervention
- Science Research



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Northwestern Local
Schools

Pre-engineering
Curriculum

**"Project Lead
The Way"**



Husky PLTW Mission Pre-engineering

Utilizing the nationally renowned Project Lead the Way pre-engineering curriculum, we will create opportunities for our students who are interested in pursuing Engineering as a career. We will work to build dynamic partnerships with local professional and business partners to help prepare this group of students to be successful in science, engineering, and engineering technology. PLTW has developed a four year sequence of courses which, when combined with college preparatory mathematics and science courses in high school, introduces students to the scope, rigor and discipline of engineering and engineering technology prior to entering college.

Our Goals

- Increase the number of young people who pursue engineering and engineering technology programs requiring a four or two - year college degree.
- Provide equitable and inclusive opportunities for all academically qualified students.
- Provide clear standards and expectations for student success in the program.
- Reduce the future college attrition rate with four and two-year engineering and engineering technology programs.
- Provide leadership and support that will produce continuous improvement and innovation in the program.

- Contribute to the continuance of America's national prosperity.



The courses are:

- Introduction to Engineering Design
- Principles of Engineering
- Digital Electronics
- Engineering Design and Development