

PIUS XI HIGH SCHOOL

Project Lead the Way Program Profile



Project Lead The Way® (PLTW) at Pius XI High School is part of a national program that seeks to create dynamic partnerships with our nation's schools to prepare an increasing and more diverse group of students to be successful in engineering and engineering technology programs. The program promotes partnerships with middle and secondary schools, colleges and universities and the private sector.

Pius XI High School is proud to be a PLTW school and has established partnerships with both Milwaukee School of Engineering and Marquette University.

The PLTW High School Program

Presently, there are six courses offered in the national PLTW High School Pre-Engineering Program that Pius XI can participate in:

- » Introduction to Engineering Design
- » Principles of Engineering
- » Digital Electronics
- » Computer Integrated Manufacturing
- » Civil Engineering and Architecture
- » Engineering Design and Development

Additionally, *Biotechnical Engineering* and *Aerospace Engineering* are two new courses currently under development. Pius XI is in its second year of PLTW offering *Introduction to Engineering Design* and *Principles of Engineering*. Enrollment in the program grew from 58 students in the first year to 149 in year two.

"One of the best parts of the Project Lead the Way program is that I am given a few guidelines for a project and then allowed to develop a design completely unique from everyone else's. It's amazing how creative engineering design allows us to be."

—Kait Sanford, Pius XI High School Senior



IBM staff visits Pius XI PLTW class

"Project Lead the Way has helped me decide what my future career will be. Last year, as a junior, I had a difficult time deciding which career to go into. I wanted something that involved creativity and originality. Enrolling in Introduction to Engineering Design helped me choose engineering as my future career."

—Jose Rivera, Pius XI High School Senior



Pius XI PLTW students visit Marquette University

The Benefits for Students

Students will:

- » Receive training in current technology using the latest computer software and equipment in use in industry.
- » Participate in a hands-on, activity oriented program that utilizes team efforts.
- » Take courses that will apply and reinforce their study of math and science.
- » Participate in a program that has developed articulation agreements with a number of colleges who will accept specified courses for credit or advanced placement.
- » Be prepared to pursue a career in technology in a field where a national employment shortage exists and pay scales are among the highest levels for entry level professionals or technicians.
- » Have an opportunity to undertake an internship with a local industry during the summer as a way of helping them determine if this career path is of interest to them.

"Project Lead the Way gave me an idea of what an engineer does and the knowledge and experience to get me started in the field. This program will prepare me for a future in engineering as well as a future in any business."

—Patrick Kessenich, Pius XI High School Freshman

Our PLTW Team

Ken Kessenich

PLTW Department Chair
kessenich@piusxi.org

Betty Hunt

Director of Academic Operations
bhunt@piusxi.org

Kathy Willmering

PLTW Instructor
kwillmering@piusxi.org

Mandy Kluck

Counselor Liaison
mkluck@piusxi.org

Karen LeSage

Development Liaison
klesage@piusxi.org