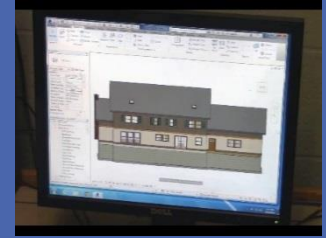


Warren Tech Engineering & Architecture



2020-21

GO KNIGHTS!

WARREN TECH ENGINEERING & ARCHITECTURE



The Warren Tech Engineering & Architecture Career Program provides students with the skills

needed to pursue a post-secondary education in Engineering, Design, Manufacturing and/or Architecture. The use of two dimensional and three dimensional Computer Aided Drafting and Design (CADD) software (AutoCAD, Inventor and Revit) is an essential tool applied within this program.

Students will develop the technological literacy and problem solving skills that are invaluable in their first year post-secondary education.

The program provides architecture practices involved in the design and layout of residential floor plans, elevations and site plans according to the National CAD Standard (NCS).

The program offers experiences in FIRST Tech Challenge (FTC) in which students design, build, program, and operate robots. Students call it "the hardest fun you'll ever have!" Students develop STEM skills and practice engineering principles while realizing the value of hard work, innovation, raise funds, design and market their team brand, and do community outreach for which they can win awards.

SkillsUSA

Students in the Engineering & Architecture Program will have the opportunity to compete in local, state and national SkillsUSA competitions in which students demonstrate occupational and leadership skills.

Students can compete in Technical Drafting, Architectural Drafting, Engineering Technology /Design and Robotics and Automation Technology.

Pictured are Warren Tech's 2016 National Champions Engineering Technology/Design



Why choose field in Engineering/Architecture?

- You can make a difference. Everywhere you look you'll see examples of engineering or architecture that makes a difference in everyday life
- Be creative. Great outlet for the imagination—the perfect field for independent thinkers
- Work with great people. Engineering/Architecture takes teamwork, and you'll work with all kinds of people inside and outside the field
- Solve problems and design things that matter. Come up with solutions no one else has thought of
- Never be bored. Creative problem solving skills will expose you to different ways of thinking
- Make a big salary. Engineers/Architects not only earn lots of respect, but they're highly paid. Even the starting salary for an entry-level job is impressive!
- Change the world. Imagine what life would be like without pollution controls to preserve the environment, life-saving medical equipment, or low-cost building materials for fighting global poverty
- All this takes engineering/architecture. In very real and concrete ways, engineers and architects save lives, prevent disease, reduce poverty, and protect our planet.

ROBOTICS

Students enrolled have the opportunity to compete on Warren Tech's award winning FIRST Tech Challenge (FTC) Robotics Team called the W.A.L.K.E.R.S



HANDS ON

Students enrolled are introduced to safe operation of various manufacturing tools and equipment (drill press, milling machine, lathe and rapid prototype machine).



COLLEGE CREDIT

Students in the Engineering Program will have the opportunity to obtain college credit (MET 103 and MET 105) through New Jersey Institute of Technology (NJIT).



Warren Tech

"The classes in Engineering provided the foundation of my skills in college, which transferred into the field of architecture. The shop classes also established and confirmed my interest in architecture and design" ~ Ty Richline Class of 2011

For More Information Contact: Warren Tech Admissions
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