



## Foundations of Engineering

Tulsa Tech's Foundations of Engineering program is located at the following Tulsa Tech High School Extension Program sites:

- » Bixby High School
- » Broken Arrow Freshman Academy
- » Broken Arrow High School
- » Collinsville High School
- » Edison Preparatory High School
- » Jenks High School
- » Memorial High School
- » Owasso High School
- » Skiatook High School
- » Union 9th Grade Center
- » Union High School

*Students must apply for admission.*

### Introduction to Engineering Design (IED)

9<sup>th</sup> Grade

Students dig deep into the engineering design process, applying math, science and engineering standards to hands-on projects within Project Lead The Way (PLTW) curriculum. Each student will work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and an engineering notebook to document their work.

*\*9th grade students will be given preference*

*Graduation Credit: Students are eligible to receive one Computer Technology credit; Approved for OK Promise*

### Principles of Engineering (POE)

10<sup>th</sup> Grade

Students explore a broad range of engineering topics including mechanisms, the strength of structures and materials, and automation through problems that engage and challenge. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation using Project Lead the Way (PLTW) curriculum.

*\*\*10th grade students who have not taken IED are eligible to apply*

*Graduation Credit: Students are eligible to receive one Computer Technology credit; Approved for OK Promise*



## Advanced Pre-Engineering (PLTW)

For 11<sup>th</sup> & 12<sup>th</sup> grade students. Located at Tulsa Tech's Lemley Memorial Campus, Buildings F & G (3420 S. Memorial Dr.)

Course options (Two (2) Engineering courses & One (1) Math or Science course each year):

- » Aerospace Engineering
- » AP Calculus AB
- » AP Calculus BC
- » AP Computer Science
- » AP Physics 1
- » AP Physics C: Mechanics
- » Chemistry
- » Civil Engineering & Architecture
- » Computer Integrated Manufacturing
- » Digital Electronics
- » Engineering Design & Development (*senior only*)
- » Introduction to Engineering Design
- » Pre-Calculus
- » Principles of Engineering

## Tulsa Tech Student Services

Client Service Center @ Lemley Memorial Campus | 3638 S. Memorial Dr. in Tulsa  
Admissions | Career Advisement & Assessment | One Stop Information & Enrollment Center