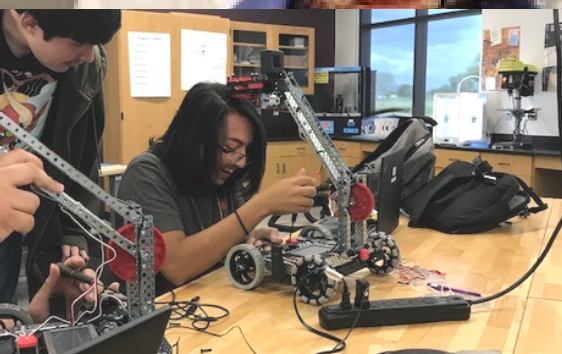




Western Technology Center STEM Academy



BioMedical Academy

PLTW Biomedical Science students are taking on rigorous real-world challenges. Working with the same tools used by professionals in hospitals and labs, students engage in compelling, hands-on activities and work together to find solutions to problems. Students take from the courses in-demand knowledge and skills they will use in high school and for the rest of their lives, on any career path they take.

Required Courses Year One	
	Hours
PLTW Principles of Biomedical Sciences (8706) (PBS)	120
Pre-AP Algebra II (4412) OR Pre-AP Calculus (4612)*	120
PLTW Human Body Systems (8707) (HBS)	120
AP Biology (5035) OR Pre-AP Physics (5211)	120
Required Courses Year Two	
	Hours
PLTW Medical Interventions (MI) (8708)	120
Pre-AP Chemistry (5051) OR AP Chemistry (5055)*	120
PLTW Biomedical Innovations (BI) (8719)	120
Pre-AP Calculus (4612) OR AP Calculus AB (4615)* OR Concurrent College Algebra*	120
Total Hours	960

Required Courses Year One

PLTW Introduction to Engineering Design (IED) (8709)

Pre-AP Algebra II (4412) **OR**
Pre-AP Calculus (4612)*

PLTW Principles of Engineering (POE) (8710)

Pre-AP Physics (5211) **OR**
AP Biology (5035)

Required Courses Year Two

Advanced Robotics (8866)

Pre-AP Chemistry (5051) **OR** AP Chemistry (5055)*

PLTW Engineering Design and Development (EDD) (8716)

Pre-AP Calculus (4612) **OR**
AP Calculus AB (4615)* **OR**
Concurrent College Algebra*

PRE-ENGINEERING ACADEMY

PLTW Engineering empowers students to step into the role of an engineer, adopt a problem-solving mindset, and make the leap from dreamers to doers. The program's courses engage students in compelling, real-world challenges that help them become better collaborators and thinkers. Students take from the courses in-demand knowledge and skills they will use in high school and for the rest of their lives, on any career path they take.



SCHOOL DAY STRUCTURE

The STEM Academies are a one-half day program at Western Technology Center.

Students may attend during the morning (8:10 – 11:05) or during the afternoon (12:40 – 3:35).

STUDENT QUALIFICATIONS

Candidates must apply to the STEM Academy during their sophomore year.

Candidates must have a minimum cumulative grade point average of 2.5 (non-weighted) OR a 19 composite on the ACT.

They will need to turn in:

- 1 online application
- 3 online teacher recommendations
- 1 counselor recommendation
- 1 official transcript
- 1 essay (see student enrollment folders for more information)

CAREER TECH STUDENT ORGANIZATIONS

STEM Academy students can build their college resumes and develop their leadership skills through student organizations

- National Technical Honor Society (NTHS)
- Health Occupations Student Association (HOSA)
- Technology Student Association (TSA)

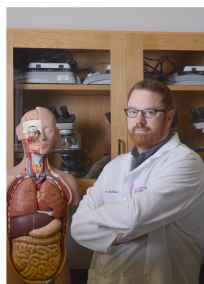
INSTRUCTORS



Lena Lewallen
Pre-Engineering



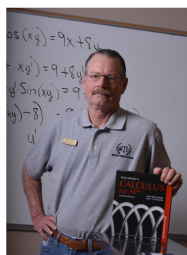
Marie Pool
Biomedical Academy



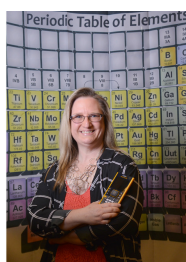
Shane Brashears
Biomedical Academy



Beth Richert
Pre-Engineering



Ronnie Dupree
Math



Monica Brinkley
PLTW Math and Science

The Counselor's Office at Western Technology Center must be in receipt of an official transcript by the stated deadline.

All online applications, recommendations, and the online essay must also be submitted by the deadline.

Application Deadline: 4:00 p.m. on January 31, 2020

Because of the accelerated pace and increased rigor of these math, science, and academy courses, students should be highly motivated and hard-working.



- Acceptance and Enrollment: Acceptance letters and further information concerning the enrollment process will be mailed to selected candidates in Spring 2020. Students will begin the Pre-Engineering Academy in the fall of 2020.

Western Technology Center does not discriminate on the basis of race, color, national origin, sex, disability, age, veteran status or religion. For inquiries concerning this policy contact HR Director, 580-562-3181, P.O. Box 1469 Burns Flat, OK 73524.

Questions? Please Call 580-562.3181 ext 360 or email brichert@westtechedu or sbrashears@westtech.edu

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