

Virtual Model Methods used

by AOET Instructors and Students



GRABCAD
POWERED BY ENGINEERS



AUTODESK®
SKETCHBOOK



Engineering Career Driven



Academy of Engineering Technology (AOET)
Westover High School
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Focused and Rigorous

Westover High School



Academy of Engineering Technology (AOET) Mission

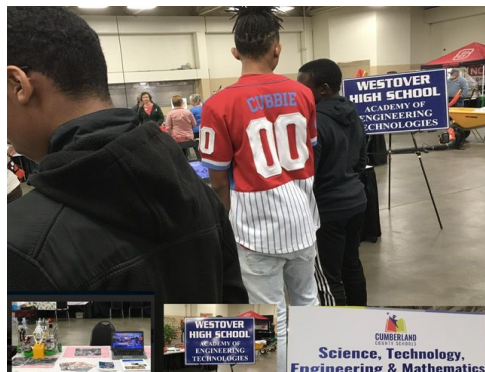
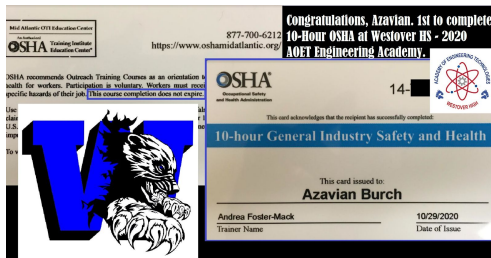
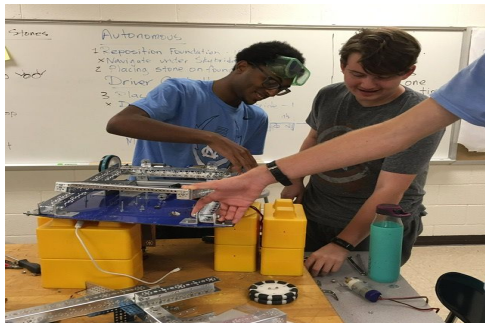
Our mission is to expose students to a rigorous curriculum through a national Project Lead The Way (PLTW) Program and an Engineering Technology Curriculum. We aim to prepare students to excel at the college level and to be career ready in a global Engineering Technology Industry.

The AOET offers mentorship opportunities through our industry partners, as well as foster teamwork by encouraging students to participate in The First Tech Challenge - Robotics Club.



Academy Member Benefits

- ❑ Rigorous Project Lead The Way (PLTW) engineering and technology knowledge
- ❑ Offers mentorship opportunities
- ❑ Leadership growth from First Tech Challenge competitions and presentations
- ❑ Field trips
- ❑ Community college classes - High School Connections @FTCC
- ❑ College credit hours, tuition free!
- ❑ Opportunity for earning graduation honor cord*
- ❑ Opportunities for PLTW scholarships and certifications
- ❑ Opportunities for AOET scholarship



Scope and Sequence of Courses

	Fall	Spring
9th		#1 PLTW Intro to Engineering Honors (required)
10th	#1 PLTW Intro to Engineering Honors (required)	#2 PLTW Digital Electronics Honors (required)
11th	#3 PLTW Principles of Engineering Honors (required)	#5 Optional PLTW Computer Integrated Manufacturing #5 Optional PLTW Civil Engineering and Architecture Honors
12th	#4 PLTW Engineering Design and Development Honors (required)	Other #5 Options Drafting I Drafting II Technology Engineering and Design OR FTCC High School Connections applicable option

FTCC High School Connections options include:

3D Animation, A/C, Heating, Refrigeration, Building Construction Tech., Computer IT/Hardware & Software, Computer Programming/Visual Basic, Graphic Design, Green Sustainable Architecture, Photovoltaic Systems, Plumbing, Simulation & Game Development, Collision Repair Network Defense and Welding. **Students must complete the FTCC application and be accepted.**

Upcoming High School Connections Opportunities for 2021/2022 Sophomores!

Contact the Academy Director or school counselors for more details!

Academy Admission Requirements

- Complete [application](#) form (in-district and out-of-district students)
- Submit one page **essay** (topic content stated on application form)
- Complete **Choice Program Application** (out-of-district students only)
- Obtain two faculty **recommendations**
- Earn a minimum **GPA of 2.5** (must maintain a 3.0 in academy courses)
- Provide academic record (*Rising 9th graders - copy of 8th grade report card; rising 10th - a copy of your last transcript if you are a transfer in student*)



Additional AOET Requirements

These additional requirements will be met over your tenure in the academy and directions for completing will be given by your academy instructors.

- Complete work-based learning/community service hours (200; adjusted based on grade level entry into the program)
- Wear AOET uniform on specified days and occasions
- Maintain discipline requirements for the district, school and classroom teachers' rules and procedures as outlined by the code of conduct
- Meet the school's attendance requirements
- Carry out an EDD Senior Project
- Create a Senior Portfolio (professional)
- Meet CCS and WHS course checklist for graduation requirements - **ELA, Math, Social Studies, Science, Foreign Language, Health and PE credits**