

Middle School Technology Education

- 7th Grade Technology
Teachers: Brendan Scannell & Evan Morier
- 6th Grade Technology
Teacher: Dawn Wetmore

High School Technology Education

Technology Education Teacher: Dawn Wetmore

- DDP-Full Year
- HVCC CAD-Full Year
- HVCC Digital Electronics-Full Year
- Material Processing— 1/2 Year

Our Middle School Technology program is an interdisciplinary approach to learning where rigorous academic concepts are coupled with real world lessons, where students apply science, technology, engineering, and mathematics in contexts that make connections between school, community, work, and global enterprise enabling the development of STEM literacy.

DDP is an introduction to engineering design class where students are exposed to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. DDP gives students the opportunity to develop skills and understand course concepts through activity-, project-, and problem-based (APPB) learning.

Computer Aided Design class utilizes current CAD software (AutoCAD), where students apply standard drafting theory to a diverse set of two-dimensional computer aided drafting applications. Topics included in this comprehensive, introductory level course are: preliminary CAD software techniques, creation and editing of geometry, plotting, single and multiple view drawings, coordinate systems, dimensioning and basic block use.

Digital Electronics is an introductory course in digital systems with topics covering number systems, Boolean algebra, logic gates, logic simplification, implementation and analysis of digital systems, flip-flops and counters. Students explore these topics through lecture reinforced by hands-on circuitry labs.

DESIGN PROCESS



Berlin High School

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Berlin Jr./Sr. High School

Technology Education

Inspiring a new generation of inventors through technological solutions to real-world problems.



Berlin Jr./Sr. High School Technology Education



Technology is a body of knowledge separate from, but related to the sciences, with specific content and activities.

It is the application of tools, materials, processes, and systems used by humans to solve problems.

The study of technology will require students to design, create, utilize, evaluate, and modify technological systems to solve problems. By solving these problems, students will be given the unique opportunity to apply numerous academic concepts through practical hands-on applications.

The Berlin InvenTeam is an extra-curricular engineering design club within our Technology Education program at the high school. We design, build, code & test solutions to problems we have identified.

New members are solicited from high school students who have skills in the following areas: CAD, Electrical, Mechanical, & Computer Programming. The size of the team fluctuates based on the current years' competition but does not exceed 10 members. We have received numerous accolades since the club's inception in 2010-2011 school year, including:

- 2010-2011 Lemelson-MIT InvenTeam grant: Adaptive Sporting Device for the Hearing Impaired
- 2011-2012 Lemelson-MIT InvenTeam continuation grant: Adaptive Device for the Blind
- 2012-2013 3rd Prize General Dynamics Design Challenge
- 2013-2014 Ability One Design Challenge participation
- 2014-2015 Samsung Solve for Tomorrow State Winner: Roadway Alert System
- 2015-2016 Lemelson-MIT InvenTeam grant: Lever, Launch & Retrieve device
- 2016-2017 Clean Tech Competition participation
- 2017-2018 TI-Codes Contest Grand Prize Winner: Clean Air Device



Berlin InvenTeam

