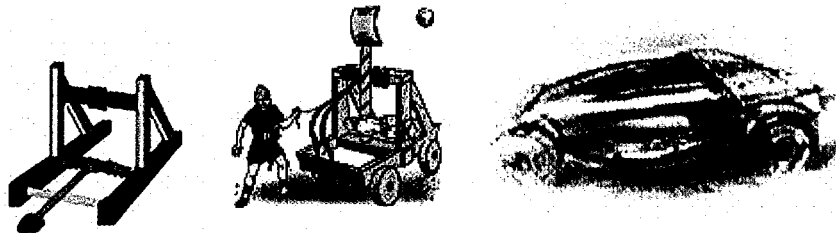


Course Descriptions
Technology Education
Matthew Soluri
BHCS

The Technology program at Belleville Henderson is designed to promote critical thinking. This is accomplished through the use of many problem solving, team working activities. This program is a must for any student interested in a career involving technology; these careers include engineering, design, architecture, or any of the various construction trades.

8th Grade Technology:

This course is aimed toward introducing students to technology and problem solving. The course begins with lessons on measurement and drawing and concludes with the development of a catapult and egg crash vehicle. The goal of these activities is to develop team working skills and problem solving skills.



Computer Aided Design and Architecture:

This course will take concepts learned in DDP and apply these same ideas on the computer. Students entering this course must have basic drawing skills, computer skills, and mathematics skills. This course is designed for students interested in careers in engineering, architecture, construction, or design. The students will learn how to draw gears, gaskets, molds, mechanical devices, and architecture on the computer. The industry leader in computer design is used in this course (AutoCAD 2017 and Chief Architect 2016).



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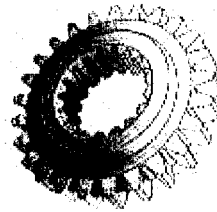
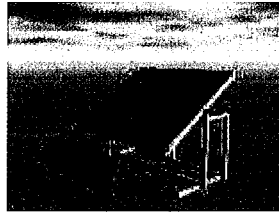
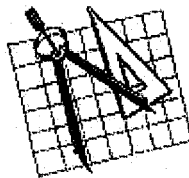
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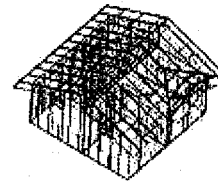
Design and Drawing for Production:

An excellent backbone course for any student studying engineering, design, or architecture. Students will be introduced to sketching, tools used for mechanical drafting, lettering, and dimensioning. Students will complete working drawings, sectioning drawings, auxiliary views, and pictorial drawings. For the second half of the year students will work as a team in groups to produce drawings for a project, they will complete all necessary drawings for the designed project, then students will build the project to those specifications. For the last part of the course students will be introduced to computer aided drafting, here they will learn how to draw without a pencil.



Construction Technology:

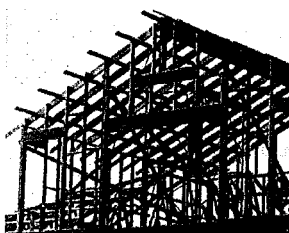
Construction systems is a study of contributions and impacts of the construction technologies on society and free enterprise through a study of its resources, processes, and systems. This course will provide an opportunity for students to better understand construction processes, materials, and practices through laboratory-based experiences. You will be instructed on the building of homes and buildings from the foundation to the roof. Students will make a scale model of a building using all of the proper techniques that would be used to make a full sized structure. At the end of the course students will have the opportunity to build an actual shed out of 2X4's and Plywood. The emphasis of this course is to train students to become contractors and entrepreneur's not construction crews.



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Energy and Power Technology:

A laboratory study of energy as a sustainable resource for technological systems found in a global society. The impacts of current and future energy consumption on the environment, climate and geo-political relations of society will be stressed. A heavy emphasis will be placed on the new and emerging technological advances of energy and its applications from a global perspective. Instructional activities will center upon research, analysis, experimentation, and the design and fabrication of scale models and mockups to authentically demonstrate generation, application and conservation of energy.

