

Students May Sign Up for One Semester Class or Classes
Minimum Age: At Least Sophomores for Shop Classes
Shop Classes Will Enroll a Maximum of 12 Students per Semester for Safety

Mr. Blackmer *Blacksmithing and Metalworking*

Students will learn the basics of metalworking including oxy-fuel torch, MIG, Stick and TIG welding processes, plasma cutting and blacksmithing.

Emphasis will be placed on shop safety, proper use of equipment, hand and power tools. Beginners practice techniques and complete small projects to develop skills. Intermediate students work on independent and larger group based projects.

This course also covers project design, measuring systems, metallurgy and fasteners. Students are encouraged to explore their artistic side with metal, wood, and other materials.

Mr Blackmer *Hands on the Land Man! Explore Nature, Forest Management and Food Production*

Students develop connections to our region's agricultural and natural ecosystems through hands-on and experiential learning. Students work as a group and individually to identify, develop, and complete projects emerging from personal interests. Some areas of potential research are: Forest and wildlife management, value added wood products, diversified farming and food production, wild foraging, understanding our natural and agricultural heritage, nature based art, water quality, land stewardship and areas of environmental concern . It is fun! You will get outside in the woods!

Mr Mills *Woodworking (Two Sections)*

Woodworking is a course designed to introduce students to general woodworking practices. Students will expand their knowledge and experience through various projects, lessons, and vocabulary. Students will be expected to learn about and safely use hand tools, power tools, and woodworking machinery. The projects are designed to give students as much experience as possible by using many different machines and tools. The projects will also cover as many aspects of the building and woodworking industries as is possible in an entry level course. Upon successful completion of this course, the student will have woodworking skills that will be useful in any aspect of the construction industry. Additionally, the student should have a broader understanding of construction processes as well as more in depth problem solving skills. These skills can stay with students the rest of their lives regarding self-home repairs and upkeep.

Mr Daniels *Multimedia Applications* (College Credit may be an option ask instructor)

The Multimedia class prepares students for applying modern technology to their lives and to prepare for future careers or classes in technology. Students will learn the concepts behind the Windows environment to create blogs, simple 3d environments, visual and audio media, and interactive animations. Students will also learn and write about current trends in technology, collaborate using Google's free online suite, and create a unique final project which is a culmination of the student's work.

Mr Heidenreich *You are what you Eat*

Introduction to the food you put in your mouth – Where it comes from, how to get it, how to use it, preservation, basic fabrication, curing, smoking, canning. Students will get a chance to better know about the food around them, how it comes to get to them and what ways they can best cook with it. Students will have the opportunity to visit local growers, team up with Diversified Agriculture on what they grow, and explore different techniques in food preparations to get the best out of the food we can.

Mr. Heidenreich *Sugar and Spice and Everything Nice*

Introduction to Baking and pastries – anything sweet and we will do it. Explore and build your skills. Start from the basic cookies and work up to more refined confections. Students will work to cover all the basics of baking and pastries. This will include, Cookies, cakes, muffins, pies, chocolate, sugar work and much more. If you have a sweet tooth and want to better be able to make it happy; join us and find out how.

Mr Daniels *3d Design* (College Credit may be an option ask instructor)

The 3d Design class prepares students for applying modern technology to their lives and to prepare for future careers or classes in interactive technology. Students will learn the concepts behind Autodesk Maya, 3DS Max, Unity Engine, and Mudox. 3d Objects and prints, simple environments, visual and audio media, and interactive animations will all be constructed and explored. Students will also research current trends in 3d environments and their applications in commercial, medical and educational fields.

High School Metal/Welding Projects



