

Building Tech 1 & 2

Building Tech 1 is a hands on class where students learn to process materials and build wood projects in safe manner. Students learn to use a variety of power tools and equipment while building various projects individually and in groups. Proper safety training on the operation of tools and equipment is strongly emphasized. If you are interested in building some unique and useful projects, then Building Tech 1 is the place for you! Custom laser engraved graphics help personalize your work. High quality projects are continually being produced in the West High Workshop. Sign up and begin your path to becoming a Maker, working with your hands and learning to create projects that can be used for years to come or sold to grateful customers!



Building Tech 2 is a hands on class and the next step in the West High Workshop program. Building Tech 2 requires a pre-requisite of Building Tech 1, where your safety training, tools and equipment experience and small projects began. In Building Tech 2, more emphasis will be giving to introducing the Construction Trades. In the West High Workshop, entry level lessons on wood framing, electrical, drywall, painting, tile work and flooring installation are ongoing, and in Building Tech 2, you will be introduced to all of these. Also, Building Tech 2 provides students the opportunity for more woodworking projects like boxes, cutting boards, lathe work, bowl turning and many more. In Building Tech 2, we are not only giving you a chance to check out the sandbox of the Construction Trades, but you have the opportunity to increase your skills with woodworking and other sellable projects.



Construction Trades 1 & 2



Construction Trades 1 is a hands on class offering a variety of experiences for the builder, whether you are planning on entering the Construction Industry or not. The variety of skills you are able learn in the West High Workshop range from wood and steel wall framing, residential and commercial electrical wiring, drywall installation/ repair/ taping and texturing, priming and painting, residential plumbing and fitting, tile and flooring installation. Some students may participate in custom built woodworking projects and introduction to CNC design and routing. These entry level workshop experiences will be coupled with outdoor construction work on sheds and cabins at our outdoor construction site. Industry partners like contractors and small businesses will be involved in the program to help coordinate your pathway into the work force should you choose.



Construction Trades 2 is a hands on class and will focus mainly on your transition into the Construction Industry. There are many different internships available with contractors throughout the industry and there are programs at the Career Center that also promote more work experience. It is our goal that you are working in your senior year in some area of Construction interest. Your trade of choice could get a streamlined focus in the West High Workshop, the Career Center House or working with industry partners. The West High Workshop has an industry driven curriculum using carpentry, electrical, plumbing and other Construction Trades such as drywall, painting, tile work and flooring. As part of this curriculum, certifications will be given to skills achieved and workplace experience. Opportunities for Apprenticeship and job placement will be explored with Career Coaches focusing on attitude, work ethic and participation.



WESTECH

Billings West High Technology Education



**Hands-On
Learning**

Technology Lab



Technology Lab is a great way to learn about technology and computers. Here are a few things you will get to experience if you take Tech Lab:

- Graphic Design
- Web Page Design
- Problem Solving with Contraptions
- Bridge Designs
- Computer Hardware and Software
- Desktop Publishing

Learn to take a computer apart and put it back together, make your own web page, and design your own T-Shirt art. Taking Tech Lab is a great way learn some high-tech skills plus, it meets one of your graduation requirements.

And, it's fun! If you don't know where to start in the world of technology, this is the class for you. Technology Lab gives you a taste of over a dozen different topics.

Computer Programming 1, 2, 3 & 4

Computer Programming is a hands-on class where you design and code your own programs. Students work in a dedicated computer lab while learning modern programming methods. Students in Computer Programming I learn about:

- Graphic design
- Sound integration
- Robotics
- 2D Game design
- Animation
- Key Programming Concepts

At the end of the semester, every student will have learned enough about programming to design and build their own 2D game as a final project.

Programming 2 and 3 provides students who have done well in Programming I have the opportunity to strengthen their skills with additional concepts such as:

- Encoding/Decoding
- Advanced Graphics
- 3D World Design
- 3D Game Design

Students use the latest 3D design software to create objects and animations for advanced projects and are able to build a final project of their choice.



Program your own game...
...Share it with friends!

Drafting Careers Exploration CAD Design & Software Drafting Technical/Mechanical Drafting Architectural

Thinking about a career in Engineering, Architecture, Interior Design or Construction? Don't miss an opportunity to get ahead with a class in Drafting. Drafting class teaches you a variety of skills including:

- 2D and 3D Design
- Sketching and Visualization
- Scale Modeling
- Graphic Design

- Understanding Plans

In this hands-on class you will experience how to draw on both the computer and with traditional mechanical drawing tools. Beginning students will learn how to design a 3D mountain cabin, advanced students design and create house plans, machine parts with a CNC mill and build scale models.



TIP!

All of these course offerings in this flier meet West High's graduation requirements in the Practical Arts area.