

Technology & Career Education Class Offerings

Automotive Courses

Automotive Engine Repair, Basic 10 Credits

Grade Level: 9-12

This class is a ROP (Regional Occupational Program) offering.

Prerequisite: None

Material/Lab Fee: \$20.00

Meets HS graduation requirement for elective credit.

This course covers the principles, operation and diagnosis of automotive engines including: basic engine operation, and construction; parts identification and location; engine repair and rebuilding procedures. Projects are performed in a shop like environment and will provide hands on experience with industry tools and safety procedures. **Students are strongly urged to have work clothes and protective shoes for class.**

**Automotive Service Technician, Intermediate & Advanced 10 Credits Grade Level:
10-12**

This class is a ROP (Regional Occupational Program) offering. This class is scheduled as a two period course.

Prerequisite: Completion of Automotive Engine Repair class.

Material/Lab Fee: \$20.00

Meets HS graduation requirement for elective credit.

Introduction to automotive service and repair, shop safety and shop operation, as well as tool safety, use and identification is the focus of this course. The course will also cover automotive engines and basic systems; electrical, cooling, fuel, suspension, etc. With successful completion of the course the student will be prepared for an entry-level position in today's automotive service industry.

**Mobile Electronics, Basic, Intermediate & Advanced 10 Credits Grade Level:
10-12**

This class is a ROP (Regional Occupational Program) offering.

Prerequisite: completion of Automotive Engine Repair or Automotive Technology

Material/Lab Fee: \$20.00

Meets HS graduation requirement for elective credit, pending School Board approval.

This competency-based course provides instruction and experience in hands-on installation methods for after-market electronics. Instruction includes information on basic

electronics principles, test equipment, and the principles, operation, and installation of vehicle audio systems. More specifically, this course prepares individuals to assemble, install, operate, maintain, or repair one- and two-way communication equipment and systems, including AM and FM radio, television, hearing aids, and other electronic communication devices or systems. It includes instruction in the use of actual equipment or in educational trainers; in various types of equipment, motors, mechanical devices, power suppliers, amplifiers, and digital circuitry; and in the use of testing equipment. Instruction also includes the licensing requirements of the Federal Communications Commission (FCC). This course may also include information on one or more of the following: principles, operation and installation of vehicle speakers; crossovers; security systems; cellular phones; navigation equipment and vehicle tracking systems. It also reviews career opportunities and employment skills necessary in the mobile electronics trade.

Computer Technology Courses

Computer Applications 1

10 Credits

Grade Level: 9-12

This class is a ROP (Regional Occupational Program) offering.

Prerequisite: None

Meets HS graduation requirement for computers.

This yearlong course meets the high school requirement for computer proficiency. It is designed to provide students with training in keyboarding as well as how to work in Microsoft Office 2007 with the following applications: Word, Excel, Access and Power Point. Internet research and E-mail are included. Basic instruction in Adobe Photoshop will also be included if time permits. As the course progresses, students will develop a business plan for a business they would like to create.

Introduction to Digital Photography

10 Credits

Grade Level:

9-12

This class is a ROP (Regional Occupational Program) offering.

Prerequisite: Recommend basic computer skills

Material Cost: \$15.00 per semester

Meets HS graduation requirement for VAPA or Technology. CSU/UC "F" requirement.

This course is designed for students with a basic photography background that are interested in learning the fundamentals of graphic design and computer based photo manipulation. It will cover elements of photocomposition, as well as basic and advanced features of Adobe Photoshop. It is strongly recommended that students have completed a basic computers course.

Intermediate Digital Photography

10 Credits

Grade Level: 10-12

This class is a ROP (Regional Occupational Program) offering.

Prerequisite: Successful completion of Digital Photography or Photography with a "C" or better.

Material Cost: \$15.00 per semester

Meets HS graduation requirements for elective credit.

Students communicate to others through their artwork and discuss the role and purpose of the art being produced, while also studying how art historians determine the value, context and culture of works from the past. In producing their own works and by studying the photographs of others, student develops a basis for making informed aesthetic judgments. Course work emphasizing student created photographic art as well as analytical reading, writing and critiques. Students will analyze photographic works through discussion or writing using the appropriate vocabulary for describing techniques and aesthetic qualities.

Advanced Digital Photography

10 Credits

Grade Level: 11-12

This class is a ROP (Regional Occupational Program) offering.

Prerequisite: Successful completion of Intermediate Digital Photography or Advanced Photography with a "C" or better.

Material Cost: \$15.00 per semester

HS graduation requirements for elective credit.

In this advanced photography course, students deepen their knowledge of photography by building on the knowledge and skills previously acquired in digital photography. They increase their expertise by working through the advanced Visual and Performing Arts Standards. This course will familiarize the student with advanced photographic equipment, materials, methods and digital processes. Students deepen and broaden their investigation of artistic photography while improving their techniques and developing a personal style. They communicate to others through their artwork and discuss the role and purpose of the art being produced. In creating their own work and by studying the photographs of others, students increase their ability to make informed aesthetic judgments. Students complete a portfolio of advanced digital photography and exhibit their work in public forums.

Graphics Design

10 Credits

Grade Level:

9-12

This class is a ROP (Regional Occupational Program) offering.

Prerequisite: None

Material Cost: \$15.00

Meets HS graduation requirement for technology credit

This yearlong course focusing on computer-generated graphics, introducing students to graphic layout programs including, Photoshop, imovies, Flash, Dreamweaver, and others commonly used in the professional advertising workplace. Students will explore various aspects of the graphics process including: the design process, logo creation, scanning, digital photography/video downloading, file preparation for printing and much more. Printing, graphic design history and career opportunities will be explored. Students will create real

life projects like CD covers and candy wrappers. This course develops essential skills, emphasizing technology and visual art terminology needed for today's professional Graphic Artist.

Intermediate Graphics Design

10 Credits

Grade Level:

10-12

This class is a ROP (Regional Occupational Program) offering.

Prerequisite: Completion of Computer Graphics.

Material Cost: \$15.00

Meets HS graduation requirements for elective credit.

This year long course will continue to build students' understanding of computer-generated graphics, the principles of design, and the creation of a graphic design product from concept to presentation. Students will continue working with Adobe Photoshop, InDesign and Illustrator at a more advanced level. Students will continue to explore various aspects of the graphics process including: the design process, brand identity creation, scanning, digital photography manipulation, publication layout, file preparation for printing and more. Printing, graphic design history and career opportunities will be explored. Students will create real life projects like magazine layouts and posters. This course develops essential workplace skills, emphasizing the professionalism, technology, and visual art terminology needed for today's Graphic Designer.

Web Authoring (Formerly Web Page Design)

10 Credits

Grade Level:

9-12

This class is a ROP (Regional Occupational Program) offering.

Prerequisite: Recommended knowledge of Word and Internet

Meets HS graduation requirement for technology

This course is designed to provide skills needed to create web pages. Students will be prepared to work in the field of Web Design. This course will focus on web page planning, constructing of content with an emphasis on visual appeal. The combination of Macromedia software will be used: Dreamweaver, Flash (animation), Fireworks and Freehand. The web page building program Dreamweaver (PC and Mac) allows students to use both HTML and simple commands to create functioning, professional looking web page layouts. Students will maintain the school's website, keeping information current and featuring events happening at the school.

Intermediate Web Authoring

10 Credits

Grade Level: 10-12

This class is a ROP (Regional Occupational Program) offering.

Prerequisite: Completion of Web Authoring with a "C" grade or better.

Meets HS graduation requirement for elective credit.

This yearlong course will continue to build students' understanding of Web design, the principles

of design, and the creation of a Web site from concept to presentation. Students will continue working with XHTML, CSS and Dreamweaver at a more advanced level. Students will continue to explore various aspects of the Web design process including: planning, consistent page construction, Web standards, problem solving, meeting a client's needs and revisions, and more. Web design history and career opportunities will be further explored. Students will create real life projects like business sites and Web logs (AKA blogs). This course develops essential workplace skills, emphasizing the professionalism, technology, and design terminology needed for today's Web Designer.

Advanced Web Authoring

10 Credits

Grade Level: 11-12

This class is a ROP (Regional Occupational Program) offering.

Prerequisite: Computer Applications/Web Design

Meet HS graduation requirement for elective credit.

This course will allow students to take their basic web design skills to the next level. They will be responsible for updating and maintaining our schools website throughout the school year, as well as working with teachers on creating/maintaining individual web sites.