

Three Advantages of Earning College Credit in High School



1. EXPLORE COLLEGE PROGRAM AND CAREER OPTIONS

Without the commitment of declaring a major, you can try out hands-on learning in a college environment that can help you learn applicable job skills in your field of choice.



2. SAVE MONEY ON YOUR EDUCATION

The cost of college can have a huge impact on you and your family. Almost all of the HS CTE classes are free.



3. SAVE TIME

All of the HS CTE courses fit in to many degrees and certificates as required core classes or elective requirements, accelerating your path to degree or certificate completion.



About the High School Career Technical Education (HS CTE) Program at CCC



The High School Career Technical Education (HS CTE) program courses are open to high school students at participating high schools. Classes are held on CCC's campus using the college lab space and state of the art equipment, similar to what you would see in the workforce. To be successful, students should be motivated, willing to learn, and excited for a challenge — the curriculum and rigor is still that of a college class! Students are expected to provide transportation to and from the college. Upon successful completion of these courses, students earn both high school and college credit. Each college class is equivalent to 3-6 college credits.

INTERESTED?

Talk to your high school counselor to discuss if this program is right for you and to sign up — space is limited!

ADDITIONAL QUESTIONS?

Contact Ashlee Hodgkinson, HS Connections Enrollment Specialist at 503-594-3499 or ashleet@clackamas.edu |

www.clackamas.edu/highschoolconnections



High School Career Technical Education Classes 2020-2021



AUTOMOTIVE SERVICE

AM-100 AUTOMOTIVE FUNDAMENTALS

Provides fundamental knowledge and basic experience about automobiles. Covers automotive systems, preventive maintenance and performing basic repairs. Covers skill and knowledge for purchasing cars, choosing quality mechanics, and making good economic decisions about repairs and costs.

Requires \$25 workbook purchased at CCC

AM-121 GENERAL AUTO REPAIR I

Students will experience working in an auto shop/lab as they repair customer vehicles. They will apply concepts such as shop and personal safety, tool usage, and customer service to develop workplace employability skills and work habits.

AM-118 SMALL ENGINE REPAIR

Overview of basic small engine maintenance, operation and repair covering safety, small engine theory, electrical systems, and troubleshooting. Covers theory of operation, 2 cycle and 4 cycle designs and applications, combined with hands-on projects. Students learn principles of small engine operation, including outdoor equipment, motorcycles, and ATVs.

Requires: \$30.00 workbook purchased at CCC

AM-122 GENERAL AUTO REPAIR II

Continuation of AM-121, course includes live repair work and fundamentals such as safety, tools, measuring and fasteners.

AUTO BODY COLLISION

AB-113 COLLISION REPAIR I

Basic instruction in collision repair, including shop and chemical hazard safety; proper and safe use of tools; basic metal work/refinishing; use of filler; door removal, replacement and alignment; and bolt on front end sheet metal parts.

ABR-125 COLLISION REPAIR II

Shop safety, fire prevention, selection and use of paint products, abrasives, fillers, application of primers, sealers and top coats.

AB-133 COLLISION REPAIR III

Repair major body damage using modern frame repair equipment and bolt-on, bonded, and welded components using latest technology. Introduction to computerized measuring and damage analysis.

ABR-127 COLLISION REPAIR IV

Application of solvent and waterborne finishes, spot repairs, color matching and complete refinishing. Intro. To computerized color information retrieval and mixing.

AB-222 COLLISION REPAIR V

Major collision repair with systems approach frame/structure, panels, suspension and brakes, electrical and cooling systems. Emphasis on frame and unibody repair, replacing welded body panels and diagnosis/repair of related damage.

ABR-129 COLLISION REPAIR VI

Application of solvent and waterborne basecoats, tri-coats and urethane topcoats using foreign and domestic refinish systems. Compete refinishing, spot and panel painting, color matching.

MANUFACTURING

MFG-102 INVENTION

Introduces students to aspects of digital design and manufacturing through use of sophisticated modeling software; 3-D printing, laser cutting and scanning; and CNC machining. Students complete a series of hands-on projects that require imagination and determination while learning solid workmanship principles.

MFG-103 MACHINING FOR FABRICATION AND MAINTENANCE

Introduction to metalworking for welding, fabricators and others to understand simple machining principles. Intro to precision measurement with calipers and micrometers. Combination squares, protractor dividers and scribes used for semi-precision layout of work pieces in preparation for machining. The use of drill press, band saw milling machining, lathe and hand tools practiced during hands on labs. Thread systems inducing nomenclature, measurement, tapping, chasing and repair discussed.

MFG-200 INTRODUCTION TO CNC

Course will prepare students to be entry-level CNC machine operators. Covers fundamentals of operation, setup principals and G&M code programming. Students use hands on activities in industrial milling and turning centers.



WELDING

WLD-111A/B SHIELDED METAL ARC WELDING (Stick)

Students learn how to set up and operate equipment to perform fillet and groove welds in all positions with the SMAW process. Oxy-fuel cutting, air carbon arc cutting and gouging will be covered.

WLD-113A/B GAS METAL ARC WELDING/ FLUX-CORE ARC WELDING (Wirefeed)

Students learn how to set up and operate equipment to perform fillet and groove welds in all positions with Gas Metal Arc and Flux Core Arc Welding processes. Oxy-fuel cutting, air carbon arc cutting and gouging will be covered.

WLD-115A/B GAS TUNGSTEN ARC WELDING (GTAW)

Students learn how to set up and operate equipment to perform fillet and groove welds in all positions with the Gas Tungsten Arc Welding process. Plasma arc cutting will be covered.

