

SVSD CTE Pathways

To complete a pathway, students **must** take two credits within one column and one course **must** be bold. All courses offered as .5 credit are noted with an asterisk (*).

Agriculture	Business and Marketing	Family Consumer Science	STEM	Health Science	Skilled and Technical Science
<ul style="list-style-type: none"> • Environmental Horticulture I • Environmental Horticulture II • Environmental Horticulture III • Environmental Science • Intro to Animal Science* • Animal Science II* • Intro to Agriscience <ul style="list-style-type: none"> • WSL* 	<ul style="list-style-type: none"> • Advanced Marketing <ul style="list-style-type: none"> • Personal Finance* • Microsoft Certifications • Principles of Marketing* <ul style="list-style-type: none"> • Sports Marketing I* • Sports Marketing II* • Cyber Security • Intro to Computer Science* • AP Computer Science A • AP Computer Science Principles • Computer and Video Game Development* • Financial Algebra <ul style="list-style-type: none"> • WSL* 	<ul style="list-style-type: none"> • American Sign Language I • American Sign Language II • American Sign Language III • Teaching Academy I • Teaching Academy II • Creative Cooking* • Culinary Arts I <ul style="list-style-type: none"> • Culinary Arts II • WSL* 	<ul style="list-style-type: none"> • Intro to Engineering and Design I* • Intro to Engineering and Design II* <ul style="list-style-type: none"> • Intro to Robotics Engineering • WSL* 	<ul style="list-style-type: none"> • Health* • Anatomy Physiology I • Anatomy Physiology II <ul style="list-style-type: none"> • Principles of Biomedical Science • Sports Medicine I • Sports Medicine II <ul style="list-style-type: none"> • WSL* 	<ul style="list-style-type: none"> • Geometry in Construction • Woodworking and Trades I* • Woodworking and Trades II* • Construction Mgmt.* <ul style="list-style-type: none"> • Ceramics I • Ceramics II • Ceramics III • Intro to Digital Media Arts Academy* • Digital Media Arts Academy* <ul style="list-style-type: none"> • TV Production • Newspaper Production • Photography 1* • Photography 2* • Photography 3* • Photography 4* • Yearbook Production <ul style="list-style-type: none"> • American Law* • Criminal Justice* • Forensic Science • Welding, Metals and Manufacturing 1&2* <ul style="list-style-type: none"> • Advanced Welding • WSL*

CTE Sequence

A student may meet this graduation pathway option by completing a sequence of CTE courses, which align with the student's High School and Beyond Plan. Satisfying this graduation pathway option meets requirements in both English and math. A course that is used as part of a CTE sequence may also be used to meet subject area graduation requirements in CTE or in other subject areas through CTE course equivalencies.

To meet this pathway students may either:

- Complete a Core Plus program in
 - Aerospace
 - Maritime
 - Healthcare
 - Information Technology
 - Construction
 - Manufacturing; or

- Complete a 2-credit sequence of courses that meet the following minimum criteria:
 - Lead to a state or nationally recognized certificate, or credential, or allow students to earn dual credit through CTE Dual Credit, Advanced Placement, or other agreement or program.
 - Be comprised of a sequenced progression of multiple courses that are technically intensive and rigorous.
 - Lead to workforce entry, a state or nationally approved apprenticeship, or postsecondary education in a related field.
 - The sequence of courses may be in a single CTE program area, or in more than one program area (see below).

If the sequence of courses is in more than one program area, it must be approved by:

- A local school board or designee, or a local district CTE advisory committee, and

- By OSPI through an expedited approval process, whereby the sequence would be deemed approved if the district does not receive a response from OSPI within 45 calendar days.
 - OSPI must provide a written explanation if the sequence is not approved.
 - Once approved, a local sequence may be implemented by other districts upon notifying OSPI (further approval by OSPI is not necessary).

Graduation Pathway Options | SBE. (2020). Wa.Gov. <https://sbe.wa.gov/our-work/graduation-pathway-options>

CTE PATHWAYS - AGRICULTURE 2020-2021



Environmental Horticulture I

Length / Credit: 1 Year / 1 Credit
Grade Level: 9, 10, 11, 12
Graduation Requirement: Occ. Ed., Science, or Elective

Homework: Minimal

Purpose: This year long, dual credit course, includes plant taxonomy, plants and their functions, the environment, chemicals, asexual reproduction, growing plants from seed, insect control, using plants in landscape, pruning, and floral design. Plant identification is a key component in this course. Students will learn skills in problem solving, public speaking, listening, goal setting and technical skills. Students will grow plants in the school greenhouse and do a sales and marketing project with the spring plant sale. Membership in the FFA student leadership club is included with this course.

Skills Developed: Students will develop skills in problem solving, public speaking, listening, goal setting and technical skills related to specific jobs in the Agricultural industry.

Specials Requirements: Willingness to study and work outdoors.

Note: Colleges will determine if Horticulture will count as science or elective credits.

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Environmental Horticulture II

Length / Credit: 1 Year / 1 Credit – Dual Credit
Grade Level: 10, 11, 12
Graduation Requirement: Occ. Ed., Science, Elective

Prerequisite: Environmental Horticulture I

Homework: Minimal

Purpose: This year long, dual credit course, builds on the knowledge and skills learned in Environmental Horticulture I. Students work independently on projects in the greenhouse, including the maintenance of the school hydroponics system. Projects developed through this course will be designed to improve skills in problem solving, public speaking, listening, goal setting, and technical skills related to specific jobs in the Agricultural industry.

Skills Developed: Projects developed through this course will be designed to improve skills in problem solving, speaking, listening, goal setting, and technical skills related to the environmental horticulture industry. Membership in the FFA student leadership club is included with this course.

Special Requirements: Willingness to study and work outdoors.

Note: Colleges will determine if Horticulture will count as science or elective credits.

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Environmental Horticulture III



Length / Credit: 1 Year / 1 Credit – Dual Credit

Grade Level: 11-12

Graduation Requirement: Occ. Ed., Science or Elective

Prerequisite: Environmental Horticulture I and II

Homework: Minimal

Purpose: This year long, dual credit course, builds on skills and knowledge learned in Environmental Horticulture II. Students explore career opportunities, help design class projects, and work in the field with industry professionals. Projects developed through this course will be designed to further expand skills in problem solving, public speaking, listening, goal setting, and technical skills related to specific jobs in the Agricultural industry. Membership in the FFA student leadership club is included with this course.

Special Requirements: Willingness to study and work outdoors.

Note: Colleges will determine in Horticulture will count as science or elective credits.

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Environmental Science



Length / Credit: 1 Year / 1 Credit – Dual Credit

Grade Level: 9, 10, 11, 12

Graduation Requirement: Occ. Ed., Science or Elective

Homework: Minimal

Purpose: This year long, dual credit course explores the many areas of environmental science and natural resources including land, forests, water, wildlife, and current issues. Students will work with the local Forest Service office to create projects that will benefit our area. The science behind the processes in our environment will be investigated with hands-on labs and class projects. This is a lab science class.

Skills Developed: Projects developed through this course will be designed to further expand skills in problem solving, public speaking, listening, goal setting, and technical skills related to specific jobs in Agricultural industry.

Special Requirements: Willingness to study and work outdoors.

Note to college-bound students: Washing State Universities consider two years of Environmental Science to be equal to one year of lab science.

Note: Colleges will determine if Environmental Science will count as a science or elective credits.

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Animal Science, Intro to

Length / Credit: 1 Semester / .5 credit

Grade Level: 9, 10, 11, 12

Graduation Requirement: Science, Occ Ed, Elective

Homework: Minimal

Purpose: This course provides students with an introduction to Animal Science and is designed for students who show an interest in animal science, animal behavior, animal classification, basic animal anatomy, reproduction, growth and development, nutrition, diseases and parasites, management and health care of common and domesticated animals. Students will be involved with live animals to reinforce topics learned in class.

Skills Developed: Students practice written and oral communications while investigating current issues related to animal science. Membership in the FFA student leadership club is included in this course. Special Requirements: Willingness to study and work indoors and outdoors with live animals.

Animal Science II

Length / Credit: 1 Semester / 0.5 Credit

Grade Level: 9, 10, 11, 12

Graduation Requirement: Occ. Ed., Science or Elective

Prerequisite: Intro to Animal Science

Homework: Minimal

Purpose: This course provides students with a continuation of Intro to Animal Science and is designed for students who show an interest in animal science, animal behavior, animal classification, basic animal anatomy, reproduction, genetics, growth & development, nutrition, disease & parasites, production, management and health care of domestic and exotic animals. Students will be involved with live animals to reinforce the topics learned in class.

Skills Developed: Students practice written and oral communications while investigating current issues related to animal science. Membership in the FFA student leadership club is included in the course.

Special Requirements: Previously taken/passed Intro to Animal Science. Students must also have a willingness to study and work indoors and outdoors with animals.

Agriscience, Intro To

Length / Credit: 1 Year / 1 Credit

Grade Level: 11, 12

Graduation Requirement: Science, Occ. Ed., or Elective

Homework: Minimal

Purpose: This course provides students the Introduction to Agriscience course where they will learn in an inquiry-based environment about the science of agriculture, plants, animals, natural resources, and food science. The course is structured to enable all students to have a variety of experiences that will provide an overview of the fields of agricultural science, natural resources, and food science. Students will learn to solve problems, conduct research, analyze data, and apply their learning to real-world situations.

Skills Developed: Students practice written and oral communications while investigating current issues related to agricultural science, natural resources, and food science. Membership in the FFA student leadership club is included in this course.

CTE PATHWAY – BUSINESS & MARKETING 2020 – 2021



Marketing, Advanced

Length / Credit: 1 Year / 1 Credit
Grade Level: 10, 11, 12
Graduation Requirement: Occ. Ed. or Elective

Homework: Minimal

Prerequisite: Principles of Marketing or Sports and Entertainment Marketing I

Purpose: Students in this year long course will delve further into the concepts of entrepreneurship, pricing and promotion learned in the introductory course. Students will also have an opportunity to apply their learning by working in the DECA Den. Students will experience first-hand marketing, entrepreneurial and business practices through real-world, hands-on projects and their work in the DECA Den.

Special Requirements: WA DECA membership and participate in Area 4 competition in January is mandatory. Students will also be required to obtain, or show proof of a valid and current, King County Food Handlers card. Students who do not have a food handlers' card will be given an opportunity to obtain one within the first two weeks of class. Students will be scheduled to work in the DECA Den during lunch periods throughout the week (you will still have a duty-free lunch period on all days). Throughout the year, students will have an opportunity to learn all aspects of managing and running a retail store including: sales associate, general store manager, merchandising manager, promotions manager, operations manager, and marketing information manager.

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Personal Finance

Length / Credit: 1 Semester / 0.5 Credit
Grade Level: 11, 12
Graduation Requirement: Occ. Ed. or Elective

Prerequisite: None

Homework: Minimal

Purpose: This class teaches students to manage their personal finances in the context of the current economic conditions and prepares them to make financial decisions in their life beyond high school. Students will increase their financial and economic literacy while learning about vital topics such as the economy, taxes and tax forms, consumer rights and responsibilities, budgeting, banking, insurance, credit and credit cards, and investing. Guest speakers will be brought in regularly to give students real world access to information regarding personal financial planning.



Marketing, Principles of

Length / Credit: 1 Semester / 0.5 Credit
Grade Level: 9, 10, 11, 12
Graduation Requirement: Occ. Ed. or Elective

Prerequisite: None

Homework: Minimal

Purpose: Students are introduced to basic marketing concepts such as entrepreneurship, marketing mix, advertising, promotion and product development. Students engage in a variety of hands-on projects and activities to help them gain an understanding of the marketing process used to make business decisions. Students have an opportunity to join DECA and attend competition in January.

<https://drive.google.com/file/d/1lyrUdu81GdO7EmDpgTOBbrYpHiFwLo3j/view?usp=sharing>



Marketing, Sports & Entertainment I

Length / Credit: 1 Semester / 0.5 Credit

Grade Level: 9, 10, 11, 12

Graduation Requirement: Occ. Ed. or Elective

Prerequisite: None

Homework: Minimal

Purpose: "SEM" I will help students develop a thorough understanding of the marketing concepts and theories that apply to sports and entertainment marketing and event management. The areas covered by this course are basic marketing, target marketing and segmentation, sponsorship, event marketing, promotions, sponsorship proposals, and sports marketing plans. This course will delve into the components of promotional plans, sponsorship proposals and the key elements needed in sports marketing plans. Students taking SEM I can participate in DECA and attend competition in January.

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Marketing, Sports & Entertainment II

Length / Credit: 1 Semester / 0.5 Credit

Grade Level: 9, 10, 11, 12

Graduation Requirement: Occ. Ed. or Elective

Prerequisite: Sports & Entertainment Marketing I (SEM I) or Principles of Marketing

Homework: Minimal

Purpose & Skills Developed: This is a continuation of SEM I, with advanced projects and activities. Students in SEM II will have an opportunity to manage and operate the DECA Den as well as plan and facilitate promotional and entertainment events for the DECA Den. Students will also complete a semester long project and can choose to develop their own marketing or business plan.

Special Requirements: Students who work in the DECA Den must obtain a valid and current King County Health Department Food Handlers card. This will be done in class within the first two weeks of the course.

Cybersecurity

Length / Credit: 1 Year / 1 Credit

Grade Level: 10, 11, 12

Graduation Requirement: Occ. Ed. or Elective

Homework: 1 hour per week

Purpose: Cybersecurity is a set of techniques used to protect networks and digital information from attack, damage, or unauthorized access. Cybersecurity exposes students to ethical hacking and the technical knowledge to defend against various types of criminal cyber-attacks. This course raises students' knowledge of and commitment to ethical computing behavior. Students will also learn to protect their personal online identities along with what risks their digital footprints are exposing them to. Students learn the layers of computing and how computers communicate. Students begin to learn how to command both Windows and Linux operation systems using a command line interface.

NOTE: This is not a coding or programming class. The class focus is not on developing applications, rather securitizing networks and digital information. However, there will be a minimal exposure to some code for illustration purposes, but coding will not be a requirement for this class.

Computer Science, Intro to



Length / Credit: 1 Semester / 0.5 Credit

Grade Level: 9, 10, 11, 12

Graduation Requirement: Occ. Ed. or Elective

Homework: 60 mins / week

Purpose: Introduction to Computer Science will develop the computer science skills of algorithm development, problem solving, and programming. The course is designed for students curious about computing careers. Students will be introduced to topics such as interface design, limits of computers and societal and ethical issues of software engineering. This course will emphasize a project-based integrated format of lessons that emphasize a way of problem solving and thinking as a computer scientist. This course will serve as a good introduction to Computer & Video Game Development and AP Computer Science A.

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AP Computer Science A



Length / Credit: 1 Year / 1 Credit

Grade Level: 11, 12

Graduation Requirement: Occ. Ed., 3rd Year Math or Elective

Prerequisites: Geometry and AP Computer Science Principles recommended

Honors/AP courses are rigorous and are designed to prepare students for college level coursework and may require summer homework. Please refer to the Dual Credit chapter for additional information about AP & Honors courses.

Homework: 60 mins / day

Purpose: AP Computer Science A introduces students to the formal concepts of object-oriented computer programming, while also building a strong foundation of skills critical to success in the 21st Century workplace. Students will build software models, games, and other interactive programs that are relevant to science, art and engineering using the Java programming language. The course explores the following elements of software development: problem solving, program design strategies, and the ethical and social implications of computing. This is a year-long course comparable to a first-semester college level class for CS majors. This is an advanced-level course, intended to be taken after other CS courses like AP Computer Science Principles.

<https://youtu.be/5NCXxFKsstM>

AP Computer Science Principles



Length / Credit: 1 Year / 1 Credit

Grade Level: 10, 11, 12

Graduation Requirement: Occ. Ed., 3rd Year Math or Elective

Prerequisites: Algebra I

Honors/AP courses are rigorous and are designed to prepare students for college level coursework and may require summer homework. Please refer to the Dual Credit chapter for additional information about AP & Honors courses.

Homework: 60 mins / day

Purpose: From 3D animation to medicine, fashion, engineering, visual design, finance, music production, statistical analysis, and much more, computer science powers the technology, productivity, and innovation that drives the world. AP Computer Science Principles prepares students for success not only in computer science majors and careers but also in other fields. In this course, students will create digital projects, such as games and apps, to address real-world issues in the same way writers, programmers, engineers, and designers do. This is a fun, but challenging, entry-level course that explores a broad range of foundational topics such as programming, the Internet, big data, digital privacy and security, and the societal impacts of computing.

<https://youtu.be/VLObvNyyGTc>

Computer & Video Game Development

Length / Credit: 1 Semester / 0.5 Credit

Grade Level: 11, 12

Graduation Requirement: Occ. Ed. or Elective

Prerequisites: AP Computer Science Principles or Robotics Engineering recommended

Homework: 60 mins / week

Purpose: This exciting Computer Science course teaches students the standard topics of a normal first-semester college class, but the projects and assignments are games. Video games provide great visual feedback for the code and they're fun to create. Students will use Python, one of the most popular and easy-to-learn programming languages, and a special arcade library ideal for creating 2D video games. This is a rigorous, intermediate-to-advanced-level course, intended to be taken after other courses like AP Computer Science Principles and/or Robotics.

Financial Algebra



Length / Credit: 1 Year / 1 Credit

Grade Level: 11, 12

Graduation Requirement: Math*, Occ. Ed. or Elective

Prerequisite: For Occ. Ed. no prerequisite. For math credit must successfully have completed Geometry and obtain counselor approval.

Homework: 20 min. / day

Purpose: Students study Algebra through real life financial concepts as it applies to business interests and personal financial management. Topics include how to purchase a dream car and insure it, how the student's credit score can save them money, understanding the paycheck, managing income taxes, preparing a budget, and making money work for them on the stock market. Participate in hands-on stock market simulations, calculating profit and loss investments. Focus on achieving financial independence.

*If a student enrolls in this class to satisfy a math requirement for graduation, the parent/guardian must sign a document acknowledging that they understand this course does not satisfy college-entrance math requirements, but it does meet the Washington State High School graduation requirement for a 3rd year math class.

CTE PATHWAYS – FAMILY CONSUMER SCIENCE 2020 – 2021



American Sign Language I

Length / Credit: 1 Year / 1 Credit
Grade Level: 9, 10, 11, 12
Graduation Requirement: World Language, Occ. Ed. or Elective

Homework: 10 – 20 mins / day

Purpose: This course is an introduction to American Sign Language (ASL) and the community of people who use it. As a second language, ASL I covers fundamental issues of visual communication and grammar. Above all, it is a class that required attendance, involvement, and practice. Success in this class will bring you valuable skills while will allow you to interact with another culture, by introducing you to a unique, diverse, rich culture that coexists through North America, namely the Deaf community. This will enable you to broaden your understanding of deaf culture, communication, and language. Two years of American Sign Language satisfies the World Language require for many colleges and universities.

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American Sign Language II

Length / Credit: 1 Year / 1 Credit
Grade Level: 10, 11, 12
Graduation Requirement: World Language, Occ. Ed. or Elective

Prerequisite: American Sign Language I and teacher permission based on successful completion of previous level

Homework: 10 – 20 mins / day

Purpose: American Sign Language II is the continuation of ASL I with greater emphasis on grammar and a concentrated effort to develop the students' expressive and receptive skills. Students will continue their study of appropriate language, grammar, cultural behaviors, and social relations. Deaf culture will be a key component of study in American Sign Language II. Two years of American Sign Language satisfies the World Language entrance requirement for many colleges and universities.

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American Sign Language III

Length / Credit: 1 Year / 1 Credit
Grade Level: 11, 12
Graduation Requirement: World Language, Occ. Ed. or Elective

Prerequisite: American Sign Language I & II and teacher permission based on successful completion of the previous level courses.

Homework: 10 – 20 mins / day

Purpose: American Sign Language III is the continuation of ASL II with greater emphasis on grammar and a concentrated effort to develop the students' expressive and receptive skills. Students will continue their study of appropriate language, grammar, cultural behaviors, and social relations. Deaf culture will be a key component of study in American Sign Language III. Two years of American Sign Language satisfies the World Language entrance requirement for many colleges and universities.

Creative Cooking

Length / Credit: 1 Semester / 0.5 Credit

Grade Level: 9, 10, 11, 12

Graduation Requirement: Occ. Ed. or Elective

Homework: Minimal

Purpose: The emphasis of this course is on healthful meal planning and preparation, nutrition, food equipment, food safety, food storage and purchasing. Also, a dive into ethnic cuisine including the unique foods and tools used.

Skills Developed: Students will have hands on experience with many types of diverse kitchen appliances and tools, demonstrate their cooking skills to others, develop knife skills, and prepare from-scratch meals.

Culinary Arts I / Pro-Start Program



Length / Credit: 1 Year / 1 Credit

Grade Level: 10, 11, 12

Graduation Requirement: Occ. Ed. or Elective

Prerequisite: Creative Cooking

Homework: Minimal

Purpose: This nationally certified program introduces students to a wide variety of careers in the Food Service Industry. Pro Start, "Where the Pros Start", will provide students with work ethics and habits that will contribute to a successful career. Students will understand the basic principles of daily business operations including ethical practices and product marketing. In addition, students will acquire an awareness of the laws, codes, regulations, and labor management practices that govern the hospitality industry. Skills will be taught in the use of tools/utensils, machines, and a diverse variety of processes to produce a product while providing a service. Students will develop teamwork skills while also learning how to accept responsibility while in a leadership role including how to overcome and recover for daily challenges. All while demonstrating the skills and attitude that contribute to a safe, positive, and productive working environment.

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CTE PATHWAYS – STEM 2020 – 2021



Engineering Design I, Intro

Length / Credit: 1 Semester / 0.5 Credit
Grade Level: 9, 10, 11, 12
Graduation Requirement: Occ. Ed., Fine Arts or Elective

Homework: Minimal

Purpose: Project Lead the Way (PLTW) Curriculum. In this course students will use 3D modeling design software to help them design solutions to solve proposed problems. Students will learn how to document their work and communicate solutions to peers and members of the professional community. This course is designed for 9th – 12th grade students. The major focus of the IED course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation.

<https://drive.google.com/file/d/1kv1A1JbIJXgMYR9gqhTdu7ZzvmN7GjUc/view?usp=sharing>



Engineering Design II, Intro

Length / Credit: 1 Semester / 0.5 Credit
Grade Level: 9, 10, 11, 12
Graduation Requirement: Occ. Ed., Fine Arts or Elective

Prerequisite: Intro Engineering Design I

Homework: Minimal

Purpose: Project Lead the Way (PLTW) Curriculum. In this course students will build upon skills developed in INTRO ENGINEERING DESIGN I. Students will deepen their understanding of the design process and their proficiency in 3D modeling design software while learning new processes such as reverse engineering. The major focus of the IED course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation.

<https://drive.google.com/file/d/1kv1A1JbIJXgMYR9gqhTdu7ZzvmN7GjUc/view?usp=sharing>

Robotics Engineering, Intro to

Length / Credit: 1 Year / 1 Credit
Grade Level: 9, 10, 11, 12
Graduation Requirement: Occ. Ed. or Elective

Prerequisites: Algebra; need to have passed Geometry or be currently enrolled in Geometry

Homework: 15 mins / night

Purpose: This is a year-long introductory course into the world of robotics. Students will work in small groups to design, build, wire, program, and operate robots to perform a variety of predetermined tasks. This course provides unique opportunities for students to compete in a set of friendly challenges and games in and out of the classroom, including participating in FIRST Robotics (a global competition). Students will conduct lab experiments while developing skills in mechanical systems, engineering design, introductory electronics, and computer programming. This class is open to students of all levels.

Special Requirements: May include work after school; participation in area robotics competitions is encouraged.

CTE PATHWAYS – Health Science 2020 – 2021

Health

Length / Credit: 1 Semester / 0.5 Credit

Grade Level: 9, 10, 11, 12

Graduation Requirement: Health or Elective

*Qualifies for CTE credit

Homework: 1 – 2 hours per week

Purpose: This course provides a student with the opportunity to study topical subjects in health. Topics covered in this wellness-oriented curriculum include nutrition and fitness, drug use, emotional health, decision making skills, first aid, relationships, and reproductive system.

Program Outcome: The student will be able to demonstrate healthy lifestyle decisions by using problem solving, communication skills, and goal setting. The students will be able to assess resources and information in their community.



Anatomy & Physiology I

Length / Credit: 1 Year / 1 Credit

Grade Level: 10, 11, 12

Graduation Requirement: Occ. Ed., Science of Elective

Homework: Minimal

Purpose: This course will teach students basic anatomy and physiology of the human body. Emphasis will be on the Skeletal, Muscular, Nervous, and Cardiovascular systems.

Skills Developed: Interested in a career in a healthcare industry? Want to be a doctor, nurse, physical therapist, athletic trainer, or personal trainer? This class will teach you the basics of how the body functions and moves. After completing the class students will be able to identify specific bones and muscles of the body as well as know how the nervous, cardiovascular, respiratory, digestive, and metabolic systems work.

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Anatomy & Physiology II

Length / Credit: 1 Year / 1 Credit

Grade Level: 11, 12

Graduation Requirement: Occ. Ed., Science or Elective

Prerequisite: Anatomy & Physiology I

Homework: Minimal

Purpose: Learn more about the systems of the body in this advanced class of Anatomy & Physiology. Systems include digestive, endocrine, blood, lymphatic, and urinary. For students who wish to pursue a career in the healthcare/medical field, taking Anatomy & Physiology is strongly suggested to build a strong base knowledge before beginning their college curriculum. Must have obtained a "B" or better in Beg. Anatomy to enroll in this course.

Biomedical Science, Principles of

Length / Credit: 1 Year / 1 Credit
Grade Level: 9, 10, 11, 12
Graduation Requirement: Occ. Ed. / Lab Science

Homework: 10 mins / day

Prerequisites: None

Purpose: This course will help prepare you for a career in medicine or health care. It will challenge you to solve real-world problems, and to think creatively and critically as you tackle challenges that biomedical professionals face in the field. In Unit 1, Medical Investigation, you will engage in forensic and medical examination to investigate a mysterious death. In Unit 2, Clinical Care, you assume the role of different medical professionals working through the schedule of patients in a family care clinic to explore medical careers, body systems, and technologies revolutionizing health care. In Unit 3, Outbreaks and Emergencies, you will work as public health officials and emergency responders as you are presented with a series of events, from an outbreak to a natural disaster. In the last unit, Innovation Inc., you will build your engineering and experimental design skills as you explore and create solutions to current and emerging issues.



Sports Medicine I

Length / Credit: 1 Year / 1 Credit
Grade Level: 10, 11, 12
Graduation Requirement: Occ. Ed. Or Elective

Homework: Minimal

Purpose: This class gives students the basic skills and knowledge for entry level employment or higher education in today's healthcare industry.

Skills Developed: This class is to be taken as basic introduction to the different careers within the field of sports medicine. Students are given the opportunity to learn some of the basic skills necessary to work in entry level healthcare jobs.

Special Requirements: Students in this course are required to complete 25 hours of athletic training experience after school with the certified athletic trainer. During this experience they are to assist the athletic trainer at athletic practices and games/events. Students are also required to complete two clinical internships in the career areas of their choice.

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Sports Medicine II

Length / Credit: 1 Year / 1 Credit
Grade Level: 11, 12
Graduation Requirement: Occ. Ed. Or Elective

Prerequisite: Sports Medicine I

Homework: Minimal

Purpose: This class provides the opportunity for students interested in a medical or healthcare career to gain advanced knowledge in those fields.

Skills Developed: Students in this course will learn how to recognize, treat, and manage specific sports injuries. They will also learn about the psychological aspects of sports injury, sports nutrition, and sport pharmacology.

Special Requirements: Students enrolled in this course will be REQUIRED to obtain 45 hours of athletic training experience. Students are also required to complete 2 clinical internships in the career area of their choice and participate in the Mount Si pre-participation physical examination held at Mount Si at the end of the school year. Students will also be required to participate in the Washington Career & Technical Sports Medicine state competition held in the spring. Once students finish the course they will be fully prepared to begin a sports medicine program at the college/university level.

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CTE PATHWAYS – Skilled & Technical Science 2020 – 2021

Geometry in Construction

This is a 2-hour block class

Length / Credit: 1 Year / 2 Credit

Grade Level: 9, 10, 11, 12

Graduation Requirement: Math AND Occ. Ed., Fine Arts, or Elective

Prerequisite: Successful completion of Algebra I

Homework: 30 mins / night

Purpose: This is an alternative approach to learning Geometry that is available as an option for students taking Geometry this year at Mount Si High School. Students enroll for 1 credit of Geometry and 1 credit Construction Trades and are assigned a 2 -period block of time each day. The Construction and Geometry teachers have partnered together to teach the Geometry objectives infused into Construction. The course is designed around the naturally occurring steps in designing and building of projects in the construction industry. Students use the mathematics in context by producing a product. Upon completion of the course, students will be able to continue into Algebra II. In addition to the course, guest speakers will talk about careers such as: engineering, architecture, surveying, real estate, marketing, construction management, interior design, heavy equipment operations, construction trades, and landscape design. Students can also work on their **NCCER Certification** in Carpentry. The capstone projects will highlight the class and the student's accomplishment in this new approach to learning both Geometry and Construction.

Woodworking / Trades I & II

Length / Credit: 1 Semester / 0.5 Credit

Grade Level: 9, 10, 11, 12

Graduation Requirement: Occ. Ed., Fine Arts or Elective

Homework: N/A

Prerequisite: Students must complete Woodworking/Trades I before taking Woodworking/Trades II.

Purpose: The focus on the Woodworking Class is on the use of wood as an art and design medium. The program is designed to enable students to conceptualize, design, and create one-of-a kind functional related artwork. Courses provide students the opportunity to develop their conceptual and technical abilities while creating a variety of projects. Instruction covers the use of traditional and advanced tools and processes commonly used to shape and fabricate wood-based objects. The emphasis of the course is on the creative problem solving, hand and power tool proficiency, and quality craftsmanship.

Construction Management & Leadership

*Student must have instructor referral to enroll

Length / Credit: 1 Semester / 0.5 Credit

Grade Level: 10, 11, 12

Graduation Requirement: Occ. Ed., Fine Arts or Elective

Prerequisites: Woods or Welding I course and instructor approval to enroll

Homework: 10 mins / day

Purpose: To give College and Career students of any pathway the skills on how to manage and supervise real life projects. These skills include problem solving, planning, scheduling, estimating and controlling of job resources. They will also learn effective human relation skills such as motivation, communication, and responsibility. Managers and supervisors are always on the front line of every project. The skills learned in this class can be used in any career choice. Projects are highlighted throughout Mount Si High School and the community.

Ceramics I

Length / Credit: 1 Semester / 0.5 Credit
Grade Level: 9, 10, 11, 12
Graduation Requirement: Fine Arts, Occ. Ed. or Elective

Homework: 15 mins / day

Purpose: This is a hands-on, studio class which introduces basic forming techniques of hand building, specifically (pinch, coil, and slab), surface techniques and glazing with mid-range clay bodies. Students also receive introductory instruction on the wheel. Students demonstrate various abilities in a series of projects that focus on aspects of function and utility and/or elements of sculpture and form. Students will produce a portfolio of their work.

Skills Developed: 1. Eye/hand coordination 2. Manual dexterity 3. Art appreciation 4. A working knowledge of clay 5. Construction and decoration 6. Effective note taking 7. Observational paragraph writing

Ceramics II

Length / Credit: 1 Semester / 0.5 Credit
Grade Level: 9, 10, 11, 12
Graduation Requirement: Fine Arts, Occ. Ed. or Elective

Prerequisite: Ceramics I or Art I in 9th Grade

Homework: 15 mins / day

Purpose: This is a hands-on, studio class where students will produce a variety of ceramic pieces with increasing complexity of form. Students will develop skills in hand-building and wheel throwing. At the same time, they will study art elements, principles and techniques by writing about their work. In order to sharpen their personal "vision", they will produce a portfolio demonstrating their growing proficiency.

Skills Developed: 1. Eye/hand coordination 2. Manual dexterity 3. Art appreciation 4. A working knowledge of clay 5. Construction and decoration 6. Effective note taking 7. Observational paragraph and essay writing

Special Requirements: Good attitude, ability to work independently on long-term projects, to create with technology to record their work and an interest in furthering student's art experience.

Ceramics III

Length / Credit: 1 Semester / 0.5 Credit
Grade Level: 10, 11, 12
Graduation Requirement: Fine Arts, Occ. Ed. or Elective

Prerequisites: Ceramics II

Homework: 15 mins / day

Purpose: This is a hands-on, studio class with emphasis on wheel throwing fluency. Students will complete a variety of assignments in order to further their mastery of more advanced techniques focusing on both form and function. At the same time, they will study art elements, principles and techniques by writing about their work. In order to sharpen their personal "vision", they will produce a portfolio demonstrating the depth and breadth of their skills.

Skills Developed: 1. Eye/hand coordination 2. Manual dexterity 3. Art appreciation 4. A working knowledge of clay 5. Construction and decoration 6. Effective note taking 7. Observational paragraph and essay writing

Special Requirement: Good attitude and an interest in furthering student's art experience

Digital Media Arts Academy, Intro



Length / Credit: 1 Semester / 0.5 Credit
Grade Level: 9, 10, 11, 12
Graduation Requirement: Occ. Ed., Fine Arts or Elective

Homework: Minimal

Purpose: The Mount Si Digital Media Arts Academy is an award-winning program where you can unleash your passion and creativity. During the Introduction course you will learn and develop the skills needed for a career in the digital arts through hands-on training and experience. You will develop the skills to produce a wide variety of digital media including filmmaking, animation, and graphic design. At the end of the course, you will have developed an online portfolio that highlights all your new skills and artwork.

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Digital Media Arts Academy



Length / Credit: 1 Year / 1 Credit
Grade Level: 10, 11, 12
Graduation Requirement: Occ. Ed., Fine Arts or Elective

Prerequisite: Intro Digital Media Arts Academy

Homework: Minimal

Purpose: Join some of the most talented digital artists in the Northwest at the Mount Si Digital Media Arts Academy and get your name engraved on one of the many golden trophies lining the wall of fame. This year long course will give you the opportunity to master professional media tools and develop industry specific skills in your choice of digital media tracks: Filmmaking, Graphic Design, or Animation (student selects one area of emphasis). You will work individually and with interdisciplinary teams of students to create significant projects for your professional portfolio/demo reel.

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Television Production



Length / Credit: 1 Year / 1 Credit
Grade Level: 9, 10, 11, 12
Graduation Requirement: Occ. Ed., Fine Arts or Elective

Prerequisite: None

Homework: 60 minutes per week

Purpose: In this course you will be introduced to the field of Broadcast Journalism and learn to write, produce, and edit news segments/podcasts that maybe broadcasted on Wildcat TV, social media or one of our many live streams. Students will get a chance to assume every role within a studio setting including but not limited to director, producer, anchor, cameraman, technical director, audio technician, and teleprompter operator. Students will also be responsible to file and edit school events and/or video productions. It will require after school hours.

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Newspaper Production (Cat Tales)



Length / Credit: 1 Year / 1 Credit
Grade Level: 9, 10, 11, 12
Graduation Requirement: Occ. Ed. or Elective

Prerequisites: Permission by Cat Tales adviser

Homework: Varies; mostly shooting photographs at after-school activities

Purpose: If you've ever wanted to see your name in print, newspaper production is the class for you! In this course, you will build on your basic journalism skills as a member of the staff of Cat Tales, Mount Si's student newspaper.

Skills Developed: In this intense and fast-paced course, students will be responsible for all of Cat Tales production in print and online formats, including advertising, photography, reporting, and editing and page design. Attention to detail, willingness to spend time outside of class, working well under pressure and ability to meet deadlines are characteristics required of all students in this class.

Special Requirements: This course requires work outside of the school day to complete assignments and meet deadlines. Students wishing to enroll in Newspaper Production must contact the newspaper adviser prior to enrolling. Editorial positions will be chosen through an interview process. Students enrolled in this course are also part of the Newspaper Club and will need to pay the school club fee.

Photography I



Length / Credit: 1 Semester / 0.5 Credit
Grade Level: 9, 10, 11, 12
Graduation Requirement: Fine Arts, Occ. Ed., Elective

Homework: Minimal

Purpose: Photography ONE is a hands-on project-based class which introduces students to many photographic topics. Units include: Introduction to Photography, Design Elements & Composition, Workflow, Digital Camera Use and Digital Image Management & Editing. Students will learn how to use manual functions on a DSLR. Hands-on projects will reinforce what has been discussed in class. Project themes vary but may include portrait, landscape, architecture, action, products, and photo essay. Students will create digital portfolios and use social media to publish their work and participate in regular guest presentations by "Photo Ambassadors" that profile how photography is used in the "real world".

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Photography II, III & IV

Length / Credit: 1 Semester / 0.5 Credit
Grade Level: 10, 11, 12
Graduation Requirement: Occ. Ed., Fine Arts, Elective

Prerequisite: Photo 1 for Photo 2, Photo 2 for Photo 3, Photo 3 for Photo 4

Homework: Minimal

Photography TWO and THREE are hands-on project-based classes in which students build on the skills they learned in Photo ONE and TWO and apply advanced studies in many areas of Photography. They will contribute to Public Relations efforts at the building and district level. Units may include: History of Photography, Design Elements & Composition, Workflow, Digital Camera Use and Digital Image Management and Editing, Photography as Art. Hands-on projects will reinforce what has been discussed in class. Project themes vary but may include portrait, landscape, architecture, action, products, PR and photo essay. Photo Three students have the opportunity to create an Independent Photo Project (IPP) related to topics of their selection. Students will create digital portfolios and use social media to publish their work and participate in regular guest presentations by "Photo Ambassadors" that profile how photography is used

in the “real world”.

Photography FOUR is a hands-on project-based class in which students build on skills they learned in Photo I, II & III. Students will work more independently on advanced areas of interest in Photography. They will create an Independent Photo Project (IPP), an agreed upon contract between both the student and the instructor that clarifies topics, goals, timelines, evaluations, and overall themes. Projects that include community outreach and connections will be encouraged. Students will contribute to Public Relations efforts at the building and district level, Photo Help and Photo Project creation and act as mentors to other students.

Yearbook Production (Tenas Coma)



Length / Credit: 1 Year / 1 Credit
Grade Level: 9, 10, 11, 12
Graduation Requirement: Occ. Ed. or Elective

Prerequisite: Permission of Tenas Coma adviser.

Homework: Minimal

Purpose: Preserving history and making memories – that’s what yearbook production is all about. Photographers, designers, writers, and editors work together in this course to produce Tenas Coma, Mount Si’s yearbook.

Skills Developed: Working with other creative and motivated students, you will develop your journalistic and problem-solving skills as you work to produce Tenas Coma. All aspects of journalism will be put into practice in this hands-on course; including photography, writing copy and captions, and page design. Students enrolled in yearbook must be able to work independently, handle stress well, meet deadlines, and pay attention to details. Photography experience is helpful, but not required.

Special Requirement: This course may require work outside of the school day to complete assignments and meet deadlines. Students wishing to enroll in yearbook production must contact the yearbook adviser prior to enrolling. Editorial positions will be chosen through an interview process. Students enrolled in this course are also part of the Newspaper Club and will need to pay the school club fee.

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American Law



Length / Credit: 1 Semester / 0.5 Credit
Grade Level: 9, 10, 11, 12
Graduation Requirement: Occ. Ed. or Elective

Homework: 30 mins / week

Purpose: American Law is an introduction to the United States’ legal system. The course is designed to prepare students to recognize and understand how the law works in our society. It shows students the history of the law, and how the law now strives to promote fairness, equal justice, and individual rights, as well as some of the challenges we face. The aim of this course is to give students a working knowledge of the law, to help them avoid legal problems, and to solve legal problems should they occur.

Skills Developed: Students will learn about the U.S. court system, constitutional freedoms, fair legal procedure, and types of crimes.

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Criminal Justice

Length / Credit: 1 Semester / 0.5 Credit

Grade Level: 10, 11, 12

Graduation Requirement: Occ. Ed. or Elective

Homework: Minimal

Purpose: Criminal Justice is offered for the student to continue the study of criminal law. The aim of the course is to give students an in-depth study of the criminal justice system and the constitutional protections that act as a balance to the law-enforcement powers of the state.

Skills Developed: Students will learn about the nature of crime, police and law enforcement, court proceedings, sentencing, and corrections. Career options will also be explored. Students will take a fieldtrip to Monroe Prison or King County Superior Court.

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Forensic Science

Length / Credit: 1 Year / 1 Credit

Grade Level: 10, 11, 12

Graduation Requirement: Occ. Ed., Science or Elective

Homework: Minimal

Purpose: Students will learn about the “big ideas” of criminal investigation: What are the burdens of proof at trial? Why do we have these standards in place? How do we overcome them to obtain a conviction? Career options will also be explored. This course will integrate criminal law with scientific techniques performed by forensic scientists to solve crimes. Students will take on the various roles of crime scene investigator, scientist, and medical examiner to collect and evaluate evidence in a problem-solving environment. Topics include DNA technology and its uses, fingerprinting, impression evidence, toxicology, anthropology, entomology, rules of evidence, and career opportunities. Fieldtrips may be offered to pertinent facilities such as King County Superior Courthouse and/or the Medical Examiner’s Office.

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Welding/Metals & Mfg. Tech. I & II

Length / Credit: 1 Semester / 0.5 Credit

Grade Level: 9, 10, 11, 12

Graduation Requirement: Occ. Ed., Fine Arts or Elective

Prerequisite: Students must complete Welding/Metals & MFG I before taking Welding/Metals & MFG II.

Homework: Minimal

Purpose: Students learn to design, layout and fabricate projects using different materials, processes and procedures found in the metal working industry. The student will learn basic metal-working skills while developing attitudes and habits necessary for working safely and effectively in this environment. Problem solving techniques will be developed in designing and determining the materials and equipment to be used to produce a productive manufacturing environment. Additionally, students receive instruction, practice and gain experience with: oxy/acetylene welding and brazing; wire feed welding (MIG/GMAW); stick or electric arc welding (SMAW); tungsten inert gas welding (TIG/GTAW); plasma metal cutting; and aluminum welding. Individual and team projects are modeled after industrial operations and are carried out in a large well-equipped classroom laboratory. Students will also explore and investigate career and occupational options.

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Welding, Advanced

Length / Credit: 1 Year / 1 Credit

Grade Level: 10, 11, 12

Graduation Requirement: Occ. Ed., Fine Arts or Elective

Prerequisite: Welding & Mfg Tech I & II

Homework: None

Purpose: This is an in-depth program designed for the serious student who is considering welding as a career choice. Students will have the opportunity to practice advanced welding skills including the four standard welding skills including the four standard welding positions using the following processes: Shielded Metal Arch Welding (SMAW), Gas Metal Arc Welding (GMAW), Oxyacetylene Welding (OAW), Oxyacetylene Cutting (OAC-F), Gas Tungsten Arc Welding (GTAW), and other related welding processes. Students have an opportunity to develop leadership skills by participating in our CORE work ethics and leadership skills program. Completion of this course will give the student entry level work skills in the welding trade.

Skill Developed: Students will learn advanced design, layout, and fabrication techniques necessary for working in the welding industry.