

AVID

(Advancement Via Individual Determination)

Students must apply, interview and be accepted into the program. To stay in the program, students will sign an agreement to maintain a 2.0 overall GPA, pass all content classes with a “C” or higher, have excellent attendance, have no major referrals and take challenging academic courses. Student may **apply** to enter AVID anytime during freshman and sophomore years through the application process and/or teacher, parent or counselor recommendation. They may also apply at the beginning of the junior year with the understanding that applications may not be accepted based on the total number of students in the AVID program. Students who have been in the program for multiple years will have priority over new students entering at the beginning of their junior years. No new students will be admitted after Semester 1 Junior Year/Grade 11.

Information for 9th & 10th grade

Advancement Via Individual Determination (AVID) is an academic elective course that prepares students for college readiness and success, and it is scheduled during the regular school day as a yearlong course. Each week, students receive instruction utilizing a rigorous college preparatory curriculum provided by AVID Center, tutor facilitated study groups, motivational activities and academic success skills. In AVID, students participate in activities that incorporate strategies focused on writing, inquiry, collaboration, organization and reading to support their academic growth.

9th Grade AVID	None	9	2 semesters	1.0	EL
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Some students will have previous experience with AVID at the middle grades, and some students will be experiencing AVID for the first time. Either way, the ninth grade AVID Elective course will serve as a review of the AVID philosophy and strategies. Students will work on academic and personal goals and communication, adjusted to the high school setting. Students will increase awareness of their personal contributions to their learning, as well as their involvement in their school and community. There is an emphasis on analytical writing, focusing on personal goals and thesis writing. Students will work in collaborative setting, learning how to participate in collegial discussions and use sources to support their ideas and opinions. Student will prepare for and participate in college entrance and placement exams, while refining study skills and test taking, note taking, and research techniques. They will take an active role in field trip and guest speaker preparations and presentations. Their college research will include financial topics and building their knowledge on colleges and careers of interest.

AVID

(Advancement Via Individual Determination)

Course Title	Prerequisite	Grade Level	Length of Course	Credits Per Year	Meets Graduation Requirement in:
10th Grade AVID	AVID 9 or Teacher/Counselor recommendation	10	2 semesters	1.0	EL

During the tenth grade AVID Elective course, students will refine the AVID strategies to meet their independent needs and learning styles. Students will continue to refine and adjust their academic learning plans and goals, increasing awareness of their actions and behaviors. As students increase the rigorous course load and school/community involvement, they will refine their time management and study skills accordingly. Students will expand their writing portfolio to include: analyzing prompts, supporting arguments and claims, character analysis and detailed reflections. Students will also analyze various documents, in order to participate in collaborative discussions and develop leadership skills in those settings. Students will expand their vocabulary use, continuing to prepare for college entrance exams and preparation. Text analysis will focus on specific strategies to understand complex texts. Lastly, students will narrow down their college and careers of interest, based on personal interests and goals.

Information for 11th & 12th grade

This course emphasizes rhetorical reading, analytical writing, collaborative discussion strategies, tutorial inquiry, study groups, preparation for college entrance and placement exams, college study skills and test-taking strategies, note taking, research.

11th Grade AVID	AVID 10 or Teacher approval	9	2 semesters	1.0	EL
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The 11th grade AVID Elective course is the first part in a junior/senior seminar course that focuses on writing and critical thinking expected of first- and second-year college students. In addition to the academic focus of the AVID seminar, there are college-bound activities, methodologies and tasks that should be undertaken during the junior year to support students as they apply to four-year universities and confirm their postsecondary plans. This course can be taken as an alternative to the senior Careers course as long as the student passed 11A, 11B, 12A and 12B. New students may apply at the beginning of grade 11 with the understanding they must go through the application and interview process and may only enter if there are spots available. Priority is given to students who have AVID experience and meet AVID criteria.

12th Grade AVID	AVID 11	12	2 semesters	1.0	EL, CR
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In addition to the academic focus of the AVID senior seminar, there are college bound activities, methodologies and tasks that should be achieved during the senior year that support students as they apply to four-year universities and confirm their postsecondary plans. All AVID seniors are required to develop and present a portfolio representing their years of work in the AVID program, as well as complete the requirements for the seminar course. This course can be taken as an alternative to the senior Careers course as long as the student passed 11A, 11B, 12A and 12B. New students are not admitted to AVID 12.

Career Technical Education (CTE)

About CTE

“Academic and technical knowledge and skills are a basis for curriculum and instruction that has the depth and breadth to address all aspects of an industry and prepare students for high wage and high demand occupations.”

Oregon Department of Education

What is CTE?

CTE is an academic and technical career education program-preparing students for college and careers through a sequence of courses.

CTE for Students

Career Technical Education provides classroom courses and learning experiences to help students:

- Explore career options
- Support basic academic and life skills
- Promote success with high academic standards
- Develop leadership skills
- Learn skills for industry-defined work
- Prepare for advanced and continuing education

Career Technical Education Courses

Advanced Horticulture/Greenhouse Management*

Agribusiness Management*

Agricultural Power

Baking*

Culinary Arts 1*, 2, 3

First Responder

Foods 1, 2

Forest Management

Graphic Design

Health Occ*

Introduction to Agriculture 1, 2*

Introduction to Animal Science/Livestock Mgmt.*

Introduction to Business*

Introduction to Horticulture/Plant Science*

Investments and Current Economic and Business Issues

Landscape Design and Maintenance

Manufacturing and Engineering Tech 1*, 2*

Marketing and Advertising

Photography

Pre-Veterinary Practices

Small Business Operations

Supervised Agricultural Experience (SAE Work Experience)

Technical Design 1*, 2

Welding and Fabrication Internship

Welding, Fabrication and Repair

Wilderness Management

Wildland ID & Survey Techniques

Forest Products

*Courses that offer college credit

Career Technical Education

Agriculture

Course Title	Prerequisite	Grade Level	Length of Course	Credits Per Year	Meets Graduation Requirement in:
Introduction to Agriculture 1 & 2	None	9-12	2 semesters	1.0	SC, CTE, EL, HD*

***4 credits of CSS 205: Soils: Sustainable Ecosystems through Linn Benton Community College**

A laboratory based science course that prepares students for a wide variety of agriculture-related careers. This hands-on course allows students to explore the science of animal and plant production, as well as learn basic techniques and skills in biotechnology, agricultural safety and career development. (Students may complete a single semester of this course for .5 credits). *HD granted when college credit received

Introduction to Animal Science/Livestock Management	None	9-12	1 Semester	.5	SC, CTE, EL, HD*
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***4 credits of ANS 121: Animal Science through Linn Benton Community College**

Discover how domesticated animals influence and impact our daily lives. Learn about anatomy, nutrition, health, genetics and reproduction. Develop skills related to the care and welfare of animals. While this class focuses on health and production of commercial livestock, it also is a first step in preparing students for the highly competitive careers in veterinary science. *HD granted when college credit received

Pre-Veterinary Practices	Students encouraged to take Intro to Animal Science	10-12	1 Semester	.5	SC, CTE, EL
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This advanced course focuses on the health and welfare of animals. Students learn practical skills in animal health and sanitation, reproduction, large and small animal anatomy, animal handling, disease symptoms and diagnosis, and biotechnology. Students may have the opportunity to participate in job shadowing and internships within the field.

Introduction to Horticulture/Plant Science	None	9-12	1 Semester	.5	SC, CTE, EL
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This course will expose students to the world of agriculture, plant science and career options. Students will have experiences in various plant science concepts through exciting “hands-on” activities, projects and problems. Student experiences will include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting. Students will learn how to apply scientific knowledge and skills to use plants effectively for agriculture and horticultural production. Students will discover the value of plant production and its impact on the individual and the local and global economy. Lessons throughout the course will provide an overview of the field of agricultural science with a foundation in plant science. These lessons include working in teams and exploring hands-on projects. Students will work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers, and plant research specialists, face in their respective careers.

Career Technical Education

Agriculture

Course Title	Prerequisite	Grade Level	Length of Course	Credits Per Year	Meets Graduation Requirement in:
Advanced Hort/Greenhouse Management	Students <u>encouraged</u> to take Intro to Horticulture	10-12	1 Semester	.5	CTE, AA, EL, HD*

***3 credits of CSS 200: Crops in Our Environment through Linn Benton Community College**

This is a hands-on course with an emphasis in the growth, development, and maintenance of plants. Students will learn hands on skills in the propagation of plants, as well as the various methods of growing plants. Students will understand the importance of crop production in our society. They will learn greenhouse-growing practices including traditional greenhouse production practices as well as hydroponics. Students will gain skills in not only production, but also marketing and sales of plant crops. *HD granted when college credit received

Landscape Design and Maintenance	None	9-12	1 Semester	.5	CTE, EL, AA
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Landscape Design and Maintenance is an Agricultural Science course focused on giving students skills in the elements of design and implementation of landscapes in commercial and residential applications. Students will learn the basics of hand drawing designs as well as commercially accepted practices using CAD. Students will also have the opportunity to implement actual designs during this course.

Welding, Fabrication and Repair	None	9-12	1 Semester	.5	CTE, EL, AA
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A beginning level course designed to give students basic skills in Oxy-Acetylene, Shielded Metal Arc, Metal Inert Gas and Gas Tungsten Arc welding as well as Oxy-Acetylene and Plasma Cutting. Student will learn basic welding skills along with planning and design, budgeting and repair skills.

Advanced Welding, Fabrication and Repair	None	10-12	1 Semester	.5	CTE, EL, AA
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An advanced level welding course designed to build upon skills that are learned in the Welding, Fabrication and Repair course. Students will spend extensive time on learning how to TIG weld and design projects on our Plasma Cam. Students will work on advanced fabrication projects and repair project that come into the shop.

Welding, Fabrication Internship	Geometry, Welding Teacher approval	11-12	1 Semester	.5	CTE, EL, AA
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***Students will receive .5 credits for each period that they take this class**

The Welding Fabrication Internship class is an opportunity for students to connect classroom learning with real world experiences; acquire career related knowledge and skills; and gain confidence and self-esteem as they realize they can function competitively in an adult workplace. Our objective is to help students participate in work experiences that relate to their personal and career interests and are in line with their post high school goals. Students must have a free 6th and 7th period in their schedule in order to enroll in this course. *HD granted when college credit received

Career Technical Education

Agriculture

Course Title	Prerequisite	Grade Level	Length of Course	Credits Per Year	Meets Graduation Requirement in:
Agriculture Power	None	9-12	1 Semester	.5	CTE, EL, PF, HD*

A course designed to give students hands on skills in the areas of engine theory, small gasoline engine repair, electric motor application, basic electrical wiring, global positioning and its use in agricultural settings, and general shop safety.

Agribusiness Management	None	11-12	1 Semester	.5	CTE, EL, PF, HD*
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***3 credits of AG 111: Computers in Agriculture through Linn Benton Community College**

Students will learn skills needed to manage an agricultural business. Instruction includes economic business principles and structures, business enterprise analysis, accounting, taxes, insurance, productivity, financing, capital resources, purchasing, government programs, commodity groups, contracts, estate planning, marketing, salesmanship, and the application of computer hardware and software in agriculture. *HD granted when college credit received

Supervised Agricultural Experience (SAE Work Experience)	Instructor approval	9-12	1 Semester	.5	CTE, EL
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An independent study course for students involved in an approved Supervised Agricultural Experience or other agriculture or natural resource based work experience endeavor. Students are required to keep an Agriculture Experience Tracker record book for this class. This late bird class requires students to meet on occasion with the instructor to evaluate their project records.

Advanced Supervised Agricultural Experience	Instructor approval	10-12	1 Semester	.5	CTE, EL
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Advance Supervised Agricultural Experience – An independent study course for students involved in a third or fourth year SAE or other Agriculture/Natural Resources based work experience project. Students are required to keep an Agricultural Experience Tracker record book for the class. Students will sign up as a late bird class and may meet occasionally with the instructor to evaluate their projects and records.

Agricultural Career and Leadership Development	None	9-12	1 Semester	.5	CTE, EL
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Learn how to get a competitive edge in the workplace. Agricultural Career and Leadership Development creates opportunities for career success by focusing on the development of interpersonal, human relations and other employable skills that are highly sought after in business and industry. You will develop your abilities in speaking, teamwork and public relations, and explore your proficiency as an effective leader while learning how to be an excellent communicator. This course facilitates participation in scheduled activities including competitive events, workshops, job shadowing and internships in various agencies related to agriculture.

Career Technical Education

Art

Course Title	Prerequisite	Grade Level	Length of Course	Credits Per Year	Meets Graduation Requirement in:
Graphic Design	None	9-12	1 semester	0.5	FA, CTE, EL

Graphic Design is a course designed to explore the elements and principles of art and how they apply to the art we use in everyday life. In this course, students will learn to implement the elements of art to create design to effectively convey a thought or message. It is a computer based design class that will utilize Adobe Illustrator and Photoshop to focus on creativity and innovative thinking. Students will produce artwork utilized by the leadership class and other school affiliated organizations promoting school functions and activities.

Graphic Design 2	Graphic Design	10-12	1 semester	0.5	FA, CTE, EL
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Graphic Design 2 is designed to acquire a basic knowledge, theories and concepts about art; develop a foundation of art skills and a high level of artisanship; communicate ideas and concepts through writing, speaking and art-making; acquire a competency with the tools and technologies associated with visual arts. Students will broaden knowledge of ancient through contemporary art; develop an understanding of the theoretical, cultural and historical contexts of art. They will apply processes of generating and solving problems in art; analyze, interpret and question traditional methodologies and preconceived notions of art and art making.

Advanced Graphic Design	Graphic Design 1 & 2	11-12	1 semester	0.5	FA, CTE, EL
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A repeatable course for students to acquire a basic knowledge, theories and concepts about art; develop a foundation of art skills and a high level of artisanship; communicate ideas and concepts through writing, speaking and art making; acquire a competency with tools and technologies associated with the visual arts. Students will broaden knowledge of ancient through contemporary art; develop an understanding of the theoretical, cultural and historical contexts of art. In addition students will apply processes of generating and solving problems in art; analyze, interpret and question traditional methodologies and preconceived notions of art and art making. Students will have the opportunity to explore and engage in interdisciplinary forms of art making, and develop an appreciation and tolerance of diverse perspectives dealing with art, culture, teaching and learning. A goal for students is to become involved in both individual and collaborative art experiences with other students, faculty and community.

Career Technical Education

Art

Course Title	Prerequisite	Grade Level	Length of Course	Credits Per Year	Meets Graduation Requirement in:
Photo 1	None	9-12	1 semester	0.5	FA, CTE, EL

This course will cover the elements and principles of photography and focus on skill building in the areas of composition, lighting and image editing software. Students will also learn the history and invention of photography. Assignments will include creative use of depth of field, shadows and light, alternative camera angles, portraits, still life and compositions based on the principles and elements of design. Students will receive basic instruction, demonstration, and see samples of the desired outcomes. Based on what they are learning, students will be allowed to go outside and shoot assignments during school hours, and they will be expected to use their phones or supply their own digital camera for the Photo 1 class. Students will learn Photoshop for editing and they will post their photography work and writing on their blog sites.

Photo 2	Photo 1	10-12	1 semester	0.5	FA, CTE, EL
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This course will explore the fundamentals of digital photography including auto and manual camera settings, lighting techniques, lens variety criticism and correct photocomposition. Students will learn advanced Photoshop techniques to produce digital artwork using their photography. This course will largely be organized such that students will be allowed to shoot on campus during school hours based on the project requirements. Class size will be limited and high quality digital cameras will be provided for students. Students will post their work and writing on blog sites.

Advanced Photo	Photo 1 Photo 2	11-12	1 semester	0.5	FA, CTE, EL
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This course is repeatable. Students will continue to build knowledge in the field of digital photography, which includes camera techniques, photo analysis, composition and photo manipulation in Photoshop. Students will be working with the instructor to select projects of interest that will help develop these advanced skills. Students will be allowed to shoot indoors and outdoors around the school. There will also be opportunities to travel off campus. Students will post work and writing on blog sites.

Career Technical Education

Business and Management

Course Title	Prerequisite	Grade Level	Length of Course	Credits Per Year	Meets Graduation Requirement in:
Introduction to Business	None	9-12	1 Semester	.5	AA, EL, HD*

***4 credits of BA 101: Intro to Business - \$ To receive credit from COCC, there is a fee to the college**

This is a gateway course in the Business strand of course offerings. This class will give the student a broad overview of the business world and an introduction to basic economic and monetary concepts. Topics will include management of a business, marketing, advertising and business ownership. Projects include creating a new image for a product, designing a new Nike shoe and researching your favorite company! *HD granted when college credit received

Small Business Operations	Intro to Business or teacher approval	9-12	1 Semester	.5	AA, EL
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This class is the second in the series of Business class offerings. Students will get practical business experience by performing different roles in the operation of the Student Store. Other activities will include weekly power point presentations on marketing and advertising themes. Students will also run a virtual store in an on-line game format.

Investments & Current Economic & Business Issues	None	9-12	1 Semester	.5	AA, EL
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In this course, students will play the stock market in a real-time virtual stock game and research companies to invest in and compete with other students to see who can make the most money from their investment decisions. Current economic and business news will be discussed in detail for a greater understanding of the global marketplace. Students will gain a greater understanding of business sectors and how they are affected by world events as well as how individual sectors are impacted.

Marketing and Advertising	Intro to Business or teacher approval	9-12	1 Semester	.5	AA, EL
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This course is the capstone to the Business and Economics strand of course offerings. Students will own a virtual professional football franchise and have to make business decisions throughout the game. An on-line text and activities website, created by an ex-Portland Trailblazer marketing specialist, will be used in this class. Local business owners will be a feature of this class to enable students to gain valuable insight into the daily operations of a business. Students will have a variety of team projects in which to be involved. A sampling of these projects will include acting as a concert tour coordinator, organizing a fundraiser event and getting sponsors for your own NASCAR, which you will design. The final team project of the class will be to design and create your own business with your teammates!

Career Technical Education

Culinary Arts

Course Title	Prerequisite	Grade Level	Length of Course	Credits Per Year	Meets Graduation Requirement in:
Foods 1	None	9-12	1 semester	0.5	AA, CTE, EL

\$20.00 for Oregon Food Handlers Card and Cooking Lab

Foods 1 is the first class of a comprehensive 6-class program that will take students on a tour of the Food Service and Hospitality Industry which is Oregon's #1 economic engine and the fastest growing business sector in Central Oregon. Foods 1 is the pre-prerequisite class for all foods and culinary art classes, including Baking. In this class, students will learn the basic skills associated with food preparation which includes basic commercial sanitation, knife skills, equipment familiarization, terminology and proper cooking techniques. In addition to fundamental kitchen skills, students will begin preparing hors d' oeuvres and appetizers based on their skills acquired.

Foods 2	Foods 1	10-12	1 semester	0.5	AA, CTE, EL
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\$20 for Oregon Food Handlers Card and Cooking Lab

Foods 2 is for students who want to pursue a career in the food production industry. In this class, students will continue to build on their fundamental culinary skills. Students will learn the art of garde-manger (breakfast, lunch, salads and dessert preparation) and how to work with meats, fish, sauces, dressings, vegetables, dairy, grains, legumes and appetizers. By the end of this class, students will be ready to competently enter into an entry-level position in the food service industry.

Culinary Arts 1	Foods 1 and Foods 2 Baking	10-12	1 semester	0.5	AA, CTE, EL, HD*
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\$20 for Oregon Food Handlers Card and Cooking Lab

***4 credits of CUL 110: Culinary Foundations 1**

\$ To receive credit from COCC, there is a fee to the college

This class is for the serious culinary artist and student with a real goal of becoming a culinarian. This class builds on all previous skills and will be the pool from which the competition team is determined. In this class, students will perform the more complicated cooking techniques and master the theories on which they are based. The completion of this class should provide students with the fundamental skills requested by most food service employers from food preparation to customer service. *HD granted when college credit received

Culinary Arts 2	Culinary Arts 1 and Foods 1 and Foods 2	10-12	1 semester	0.5	AA, CTE, EL
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\$20 for Oregon Food Handlers Card and Cooking Lab

In Culinary Arts 2, students will begin their exploration into the business and technical side of the culinary arts. In this class, students will learn the structures and mechanisms that manage the food production and hospitality industry. Students will begin by learning the systems that set up the business model and the reasoning behind the implementation of the models. The student will participate in a job interview, prepare cover letters, recipes and menu design, and learn banquet set-ups. In addition to learning the business side of the equation, students will also have the opportunity to prepare complete multi-coursed dinners. By the end of this class, students will be ready to accept an entry-level position.

Career Technical Education

Culinary Arts

Course Title	Prerequisite	Grade Level	Length of Course	Credits Per Year	Meets Graduation Requirement in:
Culinary Arts 3	Culinary Arts 1 and 2 and Foods 1 and 2 and Baking	10-12	1 semester	0.5	AA, CTE, EL

\$20 for Oregon Food Handlers Card (lasts 3 years and is required for industry), and Cooking Lab

In Culinary Arts 3, students will build on the skills developed in Foods 1 and Culinary 1 and begin to explore the mechanisms that govern the production and management of the food service industry. In Culinary 3, students will spend the semester preparing and designing a business plan proposal for a new, 21st century, environmentally sound, fully sustainable and earth friendly restaurant. In this class, students will learn about the Farm to Fork movement and nutritional/social responsibilities associated with the business model. Students will visit farms and ranches and industry professionals will lecture the class about best practices and sustainability business models. Students will participate in cooking demonstrations that will combine the cooking skills from Culinary 1 with the customer service techniques of Culinary 2. This class is for students that want to pursue a career in culinary art or to major in Hotel, Restaurant and Tourism in college.

Baking	Foods 1	9-12	1 semester	0.5	AA, CTE, EL, HD*
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\$20 for Oregon Food Handlers Card (last 3 years, required for industry) and Cooking Lab

***4 credits of BAK 110: Baking & Pastry Foundations 1**

\$ To receive credit from COCC, there is a fee to the college

There is an old saying, "The best way to a person's heart is through their stomach." In this class, students will learn the art of baking. Students will learn and practice the basic skills, techniques and sanitation associated with baking professionally. Students will bake yeast bread, artisan breads, pastries, cakes and cookies. Students will work with all forms of chocolate, pastry crème and soufflés. Students will learn how to make ice cream, puddings, icings and poached fruits and glazes. In addition to baking a variety of products, students will learn the art of planning, designing and presenting desserts. By the end of this class, students will have the skills necessary to be a baker's assistant or to work in the food service profession at an introductory level. *HD granted when college credit received

Career Technical Education

Health Science

Course Title	Prerequisite	Grade Level	Length of Course	Credits Per Year	Meets Graduation Requirement in:
Health Occupations 1: An Exploration of Health Careers	None	9-10	1 semester	0.5	CTE, EL, HD

Students will experience an introduction to a broad range of health careers through independent hands on learning modules. Modules might include dentistry, clinical laboratory practices, nursing, medical imaging, mental health, therapeutic services, career planning and more.

Health Occupations	Health Occ 1	11-12	1 semester	0.5	CTE, EL, HD
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This course is recommended for all students who might want to prepare for further study in a health care career. The course provides an overview of the health care professions, including employment trends, ethics, current health issues and job search strategies. This course includes clinical rotations at St. Charles of Prineville, the ILS Department and other health care providers. The students will be HIPPA trained and have to take a tuberculosis-screening test. Students need to have a valid driver's license, maintain current car insurance and have access to transportation to and from rotations.

*HD granted when college credit received

First Responder	None	10-12	1 semester	0.5	CTE, EL, HD
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This course is designed to instruct a student to the level of First Responder, who serves as a vital link in the chain of the health care team. This curriculum includes skills necessary for the individual to provide emergency medical care with a limited amount of equipment.

Sports Medicine	None	10-12	1 semester	0.5	EL, CTE
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This course will give students the opportunity to explore and learn the basic skills involved in the Sports Medicine field of study.

Medical Terminology	None	11-12	1 semester	0.5	EL, CTE
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Covers terminology pertaining to medical term construction, body structure, integumentary, hematopoietic/lymph, cardiovascular, oncology, respiratory and musculoskeletal systems. Includes standard abbreviations, anatomic, diagnostic, symptomatic and operative terms related to these body systems

Career Technical Education

Manufacturing and Technology

Course Title	Prerequisite	Grade Level	Length of Course	Credits Per Year	Meets Graduation Requirement in:
Technical Design 1	None	9-12	1 year	1.0	CTE, AA, EL

This course outlines principles of robotics and automation and CAD design. The class allows students to build upon computer 2-d and 3-d modeling skills. Students use CNC and rapid prototyping equipment to produce actual models of their two and three dimensional designs.

Manufacturing & Engineering Tech 1A	Design Processes 1	10-12	1 semester	0.5	CTE, AA, EL
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This is a project based course where students will go through all of the steps of getting a product from raw wood materials to a finished marketable product. Students will perform Blue Print reading, tool choice and set up, fastening and finishing. Students are required to practice all shop safety rules.

Manufacturing & Engineering Tech 1B	Design Processes 1	10-12	1 semester	0.5	CTE, AA, EL
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2 credits of MAN 101: Blueprint Reading

\$ There is a fee to the college to receive the college credit

This is a project based course where students will go through all of the steps of getting a product from raw sheet metals to a marketable product. Students will perform manufacturing process research then set up the required setups and operations of hand and power tools; inspecting a quality control. Concepts also cover in this class include: design processes, properties of materials and safe use of tools and equipment.

Technical Design 2	Technical Design 1	10-12	1 semester	0.5	CTE, AA, EL
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2 credits of MAN 115: Design Processes 1

\$ There is a fee to the college to receive the college credit

This course applies principles of CAD design. The course builds on computer solid modeling skills developed in Technical Design 1. This course introduces students to the engineering design process and the properties of good design. Students will plan, complete and document a number of analysis-based designs. Student skills will be developed in the design reports and technical drawings using computer-aided design. This course content will be covered through a series of hands-on activities where students have the opportunity to use CNC and rapid prototype equipment to produce actual products from dimensional designs.

Career Technical Education

Manufacturing and Technology

Course Title	Prerequisite	Grade Level	Length of Course	Credits Per Year	Meets Graduation Requirement in:
Manufacturing & Engineering Tech 2A	Technical Design 1	10-12	1 semester	0.5	CTE, AA, EL

This is a project based course where students will go through all of the steps of producing a product that incorporates fine **woodworking, electronic and CNC** set up and operation. Student will learn how to set up the manufacturing process for production. Students are required to practice all shop safety rules.

Manufacturing & Engineering Tech 2B	Technical Design 1 Man & Eng 1A Welding also recommended	10-12	1 semester	0.5	CTE, AA, EL
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3 credits of MAN 110: Manufacturing Processes

\$ There is a fee to the college to receive the college credit

This is a project based course. Using **Metal Stock** students will go through all of the steps of Fabricating or Milling a product from plans to a finished marketable product. Students will perform market and manufacturing process research then set up the manufacturing process for producing their product. Through the completion of the course students will learn the required setups and operations of hand and power tools; inspecting and quality control, and CNC programming. Students may be required to work in two or three person teams, but all students will be required to demonstrate their individual competencies. Students are required to practice all shop safety rules.

Concepts also covered include: design processes, properties of material, free enterprise, marketing principles and career exploration.

Design Processes 1	None	9-12	1 year	1.0	CTE,AA, EL
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This course outlines the principles of computer aided design. The class allows students to build computer 2-2 and 3-d modeling skills. Students use CNC and rapid prototyping to produce actual models of their two and three dimensional designs.

Design Processes 2	None	10-12	1 semester	0.5	CTE,AA, EL
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4 credits of MAN 115: Design Processes 1 – There is a fee to the college to receive college credit

This course applies principles of CAD design and builds on computer solid modeling skills developed in Technical Design 1. This course introduces students to the engineering design process and the properties of good design. Students will plan, complete and document a number of analysis-based designs. Student skills will be developed in the design reports and technical drawings using computer-aided design. This course content will be covered through a series of hands-on activities where students have the opportunity to use CNC and rapid prototype equipment to produce actual products from dimensional designs.

Career Technical Education

Manufacturing and Technology

Course Title	Prerequisite	Grade Level	Length of Course	Credits Per Year	Meets Graduation Requirements in:
Robotics I	Geometry	10-12	1 semester	0.5	CTE, EL

This course covers the basic concepts of computer programming and engineering leading to an understanding of the creation and programming of robotics. Robotics courses help students develop and expand their skills and knowledge of robotics and related scientific and engineering topics. Course topics might include principles of mechanics, electronics, hydraulics, pneumatics and programmable logic controllers.

Robotics II	Robotics I, Geometry	10-12	1 semester	0.5	CTE, EL
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This course expands on the basic concepts of computer programming and engineering leading to the understanding of creation and programming of robotics in real world applications. Robotics courses help students develop and expand their skills and knowledge of robotics and related scientific and engineering topics. Course topics might include principles of mechanics, electronics, hydraulics, pneumatics, programming logic controllers, project management, marketing and presenting engineering designs. Robotics I is a prerequisite to Robotics II.

Robotics III	Robotics I & II Geometry	10-12	1 semester	0.5	CTE, EL
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This course expands on the advanced concepts of computer programming and engineering leading to an understanding of creation and programming of competition robotics in real world applications. Robotics courses help students develop and expand their skills and knowledge of robotics and related scientific and engineering topics. This course will go beyond the basics of robotic and test the students' skills in designing, programming and building robots. Course topics may include principles of mechanics, electronics, hydraulics, pneumatics, programmable logic controllers, organization and presentation, and design applications. Robotics II is a prerequisite to Robotics III.

App. Design I	Intro Comp. Sci	10-12	1 semester	0.5	CTE, EL
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Intro to App. Development with Swift is a course designed by Apple engineers and educators to teach students elements of app design using Swift, one of the world's most popular programming languages. Students will learn to code and design fully functional apps, gaining critical job skills in software development and information technology. Throughout this app coding course, students build working apps for Apple's mobile devices using the language and tools of professionals – Swift and Xcode. Students experience an authentic workplace environment applying the methodologies and practices of real-world developers and acquire skills around teamwork.

Career Technical Education

Manufacturing and Technology

Course Title	Prerequisite	Grade Level	Length of Course	Credits Per Year	Meets Graduation Requirements in:
Electric Guitar Building	Technical Design 1, Manufacturing 1A and Algebra 1	11-12	1 Year	1.0	CTE, EL

Students in this course will learn wood working designing and building an electric guitar! In this STEM-based course, students will learn many different basic woodworking skills, along with the science and math behind the design of a guitar. Hand tools, power tools and CNC production will be all incorporated into the class. Students will be required to complete a number of hours manufacturing guitar blanks, necks and fret boards to offset the cost of their guitar; Yes! Students will be allowed to keep their guitars!

Geometry in Construction	Algebra 1 Good Attendance	10-12	1 Year	1.0 1.0	MA, EL CTE, EL
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Geometry in Construction will teach the relevance of geometry through the building of real world pre-fabricated construction project (tiny home, tough shed, etc.). It is highly recommended for students interested in engineering, architecture, or construction. A math teacher and CTE teacher partner together to teach the geometry objectives through fabrication. Students must enroll for one period geometry and one period manufacturing and will be assigned a two-hour block. Students receive one math credit **and** one CTE/elective credit.

Career Technical Education

Environmental Science

Course Title	Prerequisite	Grade Level	Length of Course	Credits Per Year	Meets Graduation Requirement in:
Intro to Natural Resource Management	None	9-12	1 Semester	0.5	CTE, EL

If you enjoy hunting, fishing, wildlife viewing or learning about nature, this class may be for you! This course will expose students to the field of Natural Resource Management through the exploration of both renewable resources such as soil, forest, water and wildlife and non-renewable resources such as fossil fuel, metal and minerals. Lessons throughout this course will include hands on activities, labs and at least two field trips. Students will discover the value of our natural resources and how to manage and use them wisely.

Forest Products	None	11-12	1 Semester	0.5	SC, CTE, EL, HD
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Opportunity for advanced students to take what they have learned in Forest Management and apply it to producing forest products.

Wildland Identification & Survey Techniques	None	11-12	1 Semester	0.5	SC, CTE, EL, HD
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***Dual credit option from COCC: FOR 110 - 2 credits - \$ To receive credit from COCC, there is a fee to the college**
Introduction to wildlife management, ecology and survey techniques, through hands on labs and field experiences.

Wilderness and Recreation	None	11-12	1 Semester	0.5 *See below	SC, CTE, EL, HD
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***Dual Credit Option from COCC: FOR 195 – 2 credits; \$ To receive credit from COCC, there is a fee to the college**
Is the call of the wild drawing you to understand more about wilderness areas and where to go for great backpacking trips? Are you interested in the role of recreation in a healthy community? If so, and you are interested in getting out into the wilderness and trying your hand at some recreational adventures, then sign up for this class. We take at least two trips with natural resource management professionals into wilderness areas surrounding Prineville. The course content focuses on wilderness management concepts by describing the human-nature relationship and how this applies to wilderness and the basic concepts of ecosystems. We examine the basic principles of wilderness and recreation management and their application to real-life management situations including the natural roles of fire, insects, disease and other events in wilderness ecosystems. You will study the concept of wilderness and characterize the role of scientific research in wilderness. You will complete field lab reports and do professional journal article reviews. Having this course on your transcript will give you a distinct advantage when applying for a summer job on a trail crew and could lead you beyond that to a career in the wilderness!

Career Technical Education

Course Title	Prerequisite	Grade Level	Length of Course	Credits Per Year	Meets Graduation Requirement in:
Forest Management	None	11-12	2 semesters	1.0 *See below	SC, CTE, EL, HD

***Dual Credit Option from COCC: FOR 111 – 4 credits; \$ To receive credit from COCC, there is a fee to the college**

If you want to spend afternoons in the field working to restore a stream, planting trees, taking water quality samples and working on juniper removal projects, then don't miss this class. This course requires field trips to view timber harvesting and sawmill operation and learning how to do timber cruising or measuring tree stand volumes. The extended watershed field afternoons could lead to you being awarded a "Watershed Steward Certificate" presented at the annual awards ceremony for your participation in these events for the entire school year. Field lab reports are required for all field-related activities. This is a great resume builder and could lead to a job shadow or internship opportunity to jump start your career in natural resource management. The in-class content will give you an introduction to the entire field of forestry. Outcomes will focus on past and present uses of the forest; distinguishing between conservation, preservation and environmentalism; describing forest regions of the United States; comparing and contrasting the influences of Gifford Pinchot and John Muhr; understanding the U.S. Forest Service, Bureau of Land Management and Oregon Department of Forestry organizations. You will also gain valuable exposure to guest speakers from the forestry profession as well as develop a working vocabulary related to forest management and practices. All these gained skills add up to a great advantage for your entry into a college natural resource program or to a great summer job out in the woods.

Career Education

Course Title	Prerequisite	Grade Level	Length of Course	Credits Per Year	Meets Graduation Requirement in:
Careers		11-12	1 semester	0.5	CE

This course places heavy emphasis on meeting state standards in career education by exploring career interests, determining aptitudes, acquiring job application skills (including successful resume and letter of application writing as well as interviewing techniques). Students will also receive training in post-secondary education application procedures, financial aid application instruction and SAT/ACT testing application. The development of positive work attitudes, career planning and life success strategies will also be stressed. Students will develop capabilities in the areas of personal management, problem solving, communication, teamwork, employment foundations and career development.

Careers by Proficiency	2.5 GPA Min 1 Job Shadow Complete Senior fall 2017	12	Fall semester	0.5	CE
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This course will provide students an alternative to the traditional Careers Class. The listed prerequisites must be met prior to enrollment. Through a college and career portfolio students will demonstrate state standards in career education. The documentation will include application to post-secondary education and financial aid, as well as career readiness documentation. There are also a certain number of college and career presentations the student will attend. The presentation times will include, but not limited to ELO times.