

North Clackamas School District 12

# SABIN-SHELLENBERG

## PROFESSIONAL TECHNICAL CENTER

50 YEARS OF EXCELLENCE THROUGH APPLICATION



2024-2025 COURSE CATALOG

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*Every effort is made to ensure the accuracy of the information in this catalog at the time of publication. However, information and course offerings may change due to unforeseen circumstances.*

Take Charge of YOUR Future at Sabin-Schellenberg Professional Technical Center where students learn... "Excellence through Application"

## Professionalism Matters at SSC



### OUR VISION:

The Sabin-Schellenberg Professional Technical Center vision "Excellence through Application" is evident in all of our programs. Students learn industry level skills and knowledge within a selected career area, then apply them using software, equipment and activities that mirror those in the world of work. Additionally, students in all programs practice and improve their professionalism skills such as productivity, teamwork, problem solving, and communication. Students may explore multiple career pathways by participating in a different program each semester or year, or students may choose to build skills and knowledge in one specific area of interest by taking a series of increasingly complex courses within one program of study.

### OUR MISSION:

Educating passionate leaders through creative and relevant professional experiences

### WE BELIEVE:

- All students can be successful
- Students need and want to be challenged
- Students need relevance to engage in their learning
- Sabin-Schellenberg helps students find themselves
- Students need a safe environment to learn
- Hands-on, performance-based learning fosters success for diverse learners
- Building today's and tomorrow's leaders is important work
- Sabin-Schellenberg can prepare each and every student to be career and college ready
- Career and Technical Education builds thriving communities

### WE OFFER:

- Quality instruction in 17 career programs
- Meaningful and sequential focused programs of study
- An opportunity to earn college and high school credit at the same time in our programs
- Custom-designed career training that meets the needs and standards of business, industry and today's labor force
- Internships: available in some programs at advanced levels



# College and Career-Ready with Oregon Pathways

Sabin-Schellenberg Professional Technical Center is learning that works. Sabin-Schellenberg Center offers career and technical education courses that prepare students for both college and career. Students explore career interests, develop technical skills, grow academically and gain the real-world experience they need to prepare for high-skill, high-demand, high-wage careers. SSC programs offer opportunities to reinforce students' abilities to use critical creative thinking skills, solve problems, work in teams, oversee projects, be responsible for outcomes, and strengthen and advance their technical skills.

SSC courses listed in this Course Catalog are organized into six distinct Career Pathways which provide context for academic, technical, and career learning for students:

**Agriculture, Food & Natural Resources**

**Arts, Information & Communications**

**Business & Management**

**Health Sciences**

**Human Resources**

**Industrial & Engineering Systems**

At SSC students discover their interests and passions. SSC empowers students to choose the education pathway that can lead to success in high school, college, and their chosen career.

*“Sabin-Schellenberg Professional Technical Center’s Career and Technical Education opportunities are available to all students, including federal protected classes and do not discriminate on any basis including but not limited to, an individual’s perceived or actual race, color, religion, sex, sexual orientation, gender identity, national or ethnic origin, marital status, age, mental or physical disability, pregnancy, familial or economic status. Lack of English language skills will not be a barrier to admission and participation in Career & Technical Education programs at Sabin-Schellenberg Center. For inquiries regarding discrimination or the Americans with Disabilities Act (ADA), contact Sabin-Schellenberg Title IX and Title II coordinator: Ajai Huja (503-353-5941 [hujaa@nclack.k12.or.us](mailto:hujaa@nclack.k12.or.us)) or Section 504 coordinator: Lindsay Kane (503-353-5949 [kanel@nclack.k12.or.us](mailto:kanel@nclack.k12.or.us)) 14211 SE Johnson Rd., Milwaukie, OR, 97267.”*



## Course Prerequisites

Advancement into upper level courses is based on demonstration of proficiency in identified technical skills and application of industry safety and sanitation protocols. Prerequisites listed in this catalog using a course name (for example: "Prerequisites: Animal Science 1") require that the student must have demonstrated proficiency in the technical skills, drawn from Oregon Skill Sets, that have been identified for that course by industry advisors and SSC instructors.

## Advanced College Credit

Did you know that you can earn college credit while in high school?

Talk to your instructor about applying for credit at one of the area community colleges. Information will be sent out in October to SSC students eligible for college credit.

### SSC has agreements with:

- Clackamas Community College
- Lane Community College
- Linn-Benton Community College
- Mount Hood Community College
- Portland Community College

### To apply for Advanced College Credit:

Visit the Sabin-Schellenberg Center website for information and registration instructions: <https://sites.google.com/nclack.k12.or.us/college-credit/home>. Complete the application and register for the ACC course within the stated deadlines. (Fall, Winter or Spring).

## Career Related Learning Experiences

Students in all SSC courses have the opportunity to complete career related learning experiences known as CRLE's. CRLE's are authentic, structured learning experiences that connect the curriculum directly to industry, work or post-secondary activities. All SSC students have the opportunity to complete CRLE's in CTE courses.

## Course Fees

Where approved by the Board, there are classes at SSC that have fees. The purpose of course fees is to provide

materials, supplies, and activities used to enhance the student's learning experience. Some fees can be reduced or waived for students who are on Free and Reduced lunch when a waiver is on file with their home high school.

## Credit for Proficiency

Students may earn credit in academic core subjects, e.g. science or language arts, while enrolled in SSC courses by demonstrating proficiency in the approved subject area. They will be required to submit a collection of work that documents learning experiences and shows their proficiency level. Students will earn credit and an A-F grade for demonstration of their knowledge and skills, well as a reflection on their learning. A final presentation may be required.

Courses with approved Credit for Proficiency are marked with a "CFP".

## Internships

Students placed as interns at a school or community work site have demonstrated growth in specific occupational skills and have developed goals for continued progress. Students interested in an internship placement will demonstrate the skills necessary for entry-level employment and have the knowledge to make informed decisions about next steps in postsecondary choices, training, or employee advancement. Students sign an agreement that lists expectations and may use their own transportation to and from work sites. Internship sites may require a criminal background check, drug screen and/or vaccinations/immunizations prior to placement.

## Work Based Learning

Sabin-Schellenberg programs provide students with opportunities for learning in the workplace and/or simulated workplace environment that include sustained interactions with industry or community professionals that foster in-depth, firsthand experience of the expectations and application of knowledge and skills required in a given career field. Work Based Learning opportunities may be in the form of an internship, clinical or practicum placement, service learning, cooperative work experience, school-based enterprise, pre-apprenticeship or workplace simulation. Courses in each SSC program build knowledge and skills which, combined with practice and on-going support from peers, staff and community partners, prepare students to confidently plan their own college and career pathway.

# Student Leadership Organizations

Sabin-Schellenberg Center students may participate in organized leadership opportunities. **Membership fees may apply but should not be a barrier to your participation. Speak to your advisor if you are eligible for a waiver.**

## ACE Mentor

ACE Mentor program gives high school students an exciting and informative way to learn about career possibilities in Architecture, Construction and Engineering. Students work in collaborative teams under the mentorship of experienced professionals. The program's mission is to enlighten and increase the awareness of high school students to career opportunities in architecture and engineering and related areas of the design and construction industry through mentoring; and to provide scholarship opportunities for students in an inclusive manner reflective of the diverse school population.

## DECA

DECA is an international student leadership association for students interested in marketing, management, restaurant management and entrepreneurship. Participation in DECA builds self-confidence, problem-solving skills and professionalism. Students can explore careers in business, finance, entrepreneurship, hospitality and tourism, marketing, restaurant and quick serve restaurant management, food marketing and marketing sales and service. Students adopt the association's four core values of social intelligence, civic consciousness, leadership development and vocational understanding. DECA members participate in community service, conferences and competitions.

## FFA

The National FFA Organization is dedicated to making a positive difference in the lives of students by developing their potential for premier leadership, personal growth and career success through agricultural education. SSC Agriculture program courses qualify students to participate in all local, state, and national FFA events/activities throughout the year as an official state and national FFA member. The North Clackamas FFA and Sabin-Schellenberg FFA Chapters engage students in real world learning activities ranging from exhibiting livestock to competing in a variety of leadership Career Development Events. The student-run organization strives to develop the whole student by encouraging participation in hands-on classroom learning, community service activities and completion of a Supervised Agricultural Experience project. Emphasized activities include but are not limited to:

- Agri-Science Research Projects
- Agricultural Sales
- Forestry Management
- Job Interview Skills
- Public Speaking
- Agribusiness Management

## Robotics Club

Students interested in science, technology and robotics are welcome to join our Robotics Team. Students work in teams to build and program a robot to perform specific tasks against a field of other competitors. Design components or mechanisms, project management, programming, teamwork, cooperation and strategic thinking skills are learned. Students may qualify for college scholarships.

## Future Natural Resource Leaders

Future Natural Resource Leaders (FNRL) is a student-run leadership organization that is responsible for the Forestry program's intra curricular activities. Officers are elected and regular meetings are held using parliamentary procedures. Activities include forestry competitions, field trips and fundraisers.

## Scrub Club

Scrub Club is a student-run leadership program for Health Sciences level 1 students. Every month students gather to explore a variety of careers in the medical field. Health care professionals share their career experiences and provide hands-on activities for students from the Health Services program. Scrub Club emphasizes career opportunities, expectations, and professional qualities that are essential for success in the medical field.

## SkillsUSA

SkillsUSA is a national nonprofit leadership organization serving middle, high school and college students who are preparing for careers in trade, technical, and skilled service occupations. This partnership of students, teachers and industry representatives work together to ensure America has a skilled work force. It helps each student excel. SSC Programs that participate in SkillsUSA include:

- Automotive Service Technology
- Building Construction
- Cosmetology
- Culinary Arts
- Electronics Technology
- Law Enforcement
- Manufacturing & Engineering

## Agriculture

Pg #	Course #	Course Name	Grade	Frequency	Length	Credit
10	183020910	Survey of Agriculture and Natural Resources	9-11	1 Per/Every other day	Year	1.0
10	180011910	Animal Science 1	9-12	2 Per/Every other day	Year	2.0
10	181011910	Animal Science 2*	10-12	2 Per/Every other day	Year	2.0
10	183041910	Animal Science 3*	11-12	2 Per/Every other day	Year	2.0
11	180021910	Adv Ag Research*	12	2 Per/Every other day	Year	2.0
11	181481920	Ag Intern*	11-12	Varies	Semester	Varies

## Architecture & Design

Pg #	Course #	Course Name	Grade	Frequency	Length	Credit
35	211021910	Architecture & Design 1	9-12	2 Per/Every other day	Year	2.0
35	211031910	Architecture & Design 2*	10-12	2 Per/Every other day	Year	2.0
35	211032910	Architecture & Design 3*	11-12	2 Per/Every other day	Year	2.0
35	211034910	Architecture & Design 4*	12	2 Per/Every other day	Year	2.0

## Automotive Service Technology

Pg #	Course #	Course Name	Grade	Frequency	Length	Credit
36	201031910	Automotive Service Technology 1	9-12	1 Per/Every other day	Year	1.0
36	201041910	Automotive Service Technology 2*	10-12	2 Per/Every other day	Year	2.0
36	201061910	Automotive Service Technology 3*	11-12	2 Per/Every other day	Year	2.0
37	201032920	Auto Upkeep	10-12	1 Per/Every other day	Semester	0.5
37	201071910	Diesel Technology & Maintenance*	11-12	2 Per/Every other day	Year	2.0

## Broadcasting & Social Media

Pg #	Course #	Course Name	Grade	Frequency	Length	Credit
14	110514920	Radio Broadcasting	9-12	1 Per/Every other day	Semester	0.5
14	110515920	Sports Broadcasting	9-12	1 Per/Every other day	Semester	0.5
16	111013920	Journalism	9-12	1 Per/Every other day	Semester	0.5
16	111012910	Advanced Journalism*	10-12	1 Per/Every other day	Year	1.0
15	110511910	Broadcasting & Social Media 1	10-12	1 Per/Every day	Year	2.0
15	110512910	Broadcasting & Social Media 2*	11-12	1 Per/Every day	Year	2.0
15	110513910	Broadcasting & Social Media 3*	12	1 Per/Every day	Year	2.0

## Building Construction

Pg #	Course #	Course Name	Grade	Frequency	Length	Credit
38	020725910	Geometry in Construction	9-12	2 Per/Every other day	Year	2.0
38	170041910	Building Construction 1	9-12	1 Per/Every other day	Year	1.0
38	170042910	Building Construction 2*	10-12	2 Per/Every other day	Year	2.0
39	170043910	Building Construction 3*	11-12	2 Per/Every other day	Year	2.0
39	170491410	Building Construction 4*	12	2 Per/Every other day	Year	2.0

## Business & Management/Marketing

Pg #	Course #	Course Name	Grade	Frequency	Length	Credit
21	121041910	Accounting 1	10-12	1 Per/Every other day	Year	1.0
21	121042910	Accounting 2*	11-12	1 Per/Every other day	Year	1.0
22	121641910	Business & Management 1	9-12	1 Per/Every other day	Year	1.0
22	121661910	Business & Management 2*	10-12	1 Per/Every day	Year	2.0
23	120521910	Marketing 1	9-12	1 Per/Every other day	Year	1.0
23	120522910	Marketing 2*	10-12	1 Per/Every other day	Year	1.0
22	121991920	Business & Mgmt Intern*	11-12	1 Per/Every other day	Semester	0.5
23	120523910	Adv Bus/Mgmt Projects*	11-12	1 Per/Every other day	Year	1.0

## Cosmetology

Pg #	Course #	Course Name	Grade	Frequency	Length	Credit
30	191491920	Cosmetology Concepts	9-12	1 Per/Every other day	Semester	0.5
30	191041910	Cosmetology 1	10-12	2 Per/Every other day	Year	2.0
30	191491910	Cosmetology 2*	11-12	2 Per/Every other day	Year	2.0
30	191492910	Cosmetology 3*	12	2 Per/Every other day	Year	2.0

## Culinary Arts

Pg #	Course #	Course Name	Grade	Frequency	Length	Credit
24	160531920	Intro: Culinary	9-10	1 Per/Every other day	Semester	0.5
24	160532920	Intro: Culinary JS	11-12	1 Per/Every other day	Semester	0.5
24	160011910	Culinary Arts 1*	10-12	2 Per/Every other day	Year	2.0
25	160571910	Culinary Arts 2*	11-12	2 Per/Every other day	Year	2.0
25	160521910	Culinary Arts 3*	12	2 Per/Every other day	Year	2.0
25	160522920	Culinary Intern*	11-12	Varies	Semester	Varies



## Digital Design

Pg #	Course #	Course Name	Grade	Frequency	Length	Credit
17	102021920	2D Animation	9-12	1 Per/Every other day	Semester	0.5
17	111551910	Graphic Design 1	9-12	1 Per/Every other day	Year	1.0
17	111552910	Graphic Design 2*	10-12	2 Per/Every other day	Year	2.0
18	111553910	Graphic Design 3*	11-12	2 Per/Every other day	Year	2.0
18	111541920	Advanced Studio Intern*	11-12	Varies	Semester	Varies

## Education

Pg #	Course #	Course Name	Grade	Frequency	Length	Credit
31	191531920	Survey of Children, Youth & Families	9-12	1 Per/Every other day	Semester	0.5
31	190511910	Working w/Children & Youth	10-12	2 Per/Every other day	Year	2.0
32	191531910	Careers in Early Childhood Education	10-12	1 Per/Every other day	Year	1.0
32	191513910	Careers in Education	10-12	1 Per/Every other day	Year	1.0
32	190521910	Child & Family Services Practicum*	11-12	2 Per/Every other day	Year	2.0
32	191521910	Elementary Education Practicum*	11-12	2 Per/Every other day	Year	2.0
32	191512910	Middle & High School Practicum*	11-12	2 Per/Every other day	Year	2.0
32	190981910	Ed Intern: Child & Family Services*	12	2 Per/Every other day	Year	2.0
32	191981910	Ed Intern: Elementary Education*	12	2 Per/Every other day	Year	2.0
32	191982910	Ed Intern: Middle & High School*	12	2 Per/Every other day	Year	2.0

## Electronics Technology

Pg #	Course #	Course Name	Grade	Frequency	Length	Credit
40	171011920	Intro: Electronics Technology	9-12	1 Per/Every other day	Semester	0.5
40	171012910	Exploring Electronics	9-12	1 Per/Every other day	Year	1.0
40	171061910	Electronics Technology 1*	10-12	1 Per/Every day	Year	2.0
41	171491910	Electronics Technology 2*	11-12	1 Per/Every day	Year	2.0
41	171492910	Electronics Technology 3*	12	1 Per/Every day	Year	2.0

## Forestry & Natural Resources

Pg #	Course #	Course Name	Grade	Frequency	Length	Credit
12	183020910	Survey of Agriculture and Natural Resources	9-11	1 Per/ Every other day	Year	1.0
12	185021910	Forestry 1	10-12	2 Per/Every other day	Year	2.0
12	185041910	Forestry 2*	11-12	2 Per/Every other day	Year	2.0
12	185042910	Forestry 3*	12	2 Per/Every other day	Year	2.0

## Health Services

Pg #	Course #	Course Name	Grade	Frequency	Length	Credit
27	140012910	Survey of Health Sciences	9-10	1 Per/Every other day	Year	1.0
27	140011920	Health Care Trends	10-12	1 Per/Every other day	Semester	0.5
27	140021910	Health Sciences 1	11-12	1 Per/Every day	Year	2.0
28	149992910	Health Sciences 2: Seminar*	12	2 Per/Every other day	Year	2.0
28	149991910	Health Sciences 2: Internship*	12	2 Per/Every day	Year	4.0

## Law Enforcement

Pg #	Course #	Course Name	Grade	Frequency	Length	Credit
33	150011910	Law Enforcement 1	10-12	1 Per/Every other day	Year	1.0
33	152021910	Law Enforcement 2*	11-12	2 Per/Every other day	Year	2.0
33	150531910	Law Enforcement 3*	12	2 Per/Every other day	Year	2.0
33	150532920	CSI	11-12	1Per/Every other day	Semester	0.5



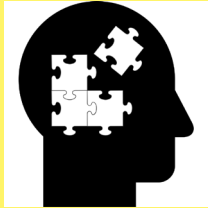



## Manufacturing & Engineering

Pg #	Course #	Course Name	Grade	Frequency	Length	Credit
42	132031920	Survey of Manufacturing & Engineering	9-12	1 Per/Every other day	Semester	0.5
42	210091910	Engineering Robotics 1	9-12	1 Per/Every other day	Year	1.0
42	210092910	Engineering Robotics 2*	10-12	1 Per/Every other day	Year	1.0
42	132021910	Machining 1	9-12	1 Per/Every other day	Year	1.0
45	132071910	Welding 1	9-12	1 Per/Every other day	Year	1.0
45	132022910	Manufacturing & Engineering 2 : Fab/Weld*	10-12	2 Per/Every other day	Year	2.0
45	132073910	Manufacturing & Engineering 3 : Fab/Weld*	11-12	2 Per/Every other day	Year	2.0
45	132074910	Manufacturing & Engineering 4: Fab/Weld*	12	2 Per/Every other day	Year	2.0
46	132081910	Manufacturing & Engineering: Welder Qualification*	11-12	2 Per/Every other day	Year	2.0
43	211062910	Manufacturing & Engineering 2: Machining*	10-12	2 Per/Every other day	Year	2.0
43	132043910	Manufacturing & Engineering 3: Machining*	11-12	2 Per/Every other day	Year	2.0
44	132044910	Manufacturing & Engineering 4: Machining*	12	2 Per/Every other day	Year	2.0
44&46	132481920	Manufacturing & Engineering Intern*	11-12	Varies	Semester	Varies

## Programming & Coding

Pg #	Course #	Course Name	Grade	Frequency	Length	Credit
19	101601920	Intro to Programming & Coding	9-11	1 Per/Every other day	Semester	0.5
19	101561910	Programming & Coding 1	9-12	1 Per/Every other day	Year	1.0
19	101562910	Programming & Coding 2*	10-12	1 Per/Every day	Year	2.0

# Sabin-Schellenberg Programs

<p><b>Agriculture/Food &amp; Natural Resources</b></p> 	<ul style="list-style-type: none"> <li>• Agriculture</li> <li>• Forestry</li> </ul>
<p><b>Arts, Information &amp; Communications</b></p> 	<ul style="list-style-type: none"> <li>• Broadcasting &amp; Social Media</li> <li>• Digital Design</li> <li>• Programming &amp; Coding</li> </ul>
<p><b>Business &amp; Management</b></p> 	<ul style="list-style-type: none"> <li>• Business &amp; Management</li> <li>• Marketing</li> <li>• Culinary Arts</li> </ul>
<p><b>Health Sciences</b></p> 	<ul style="list-style-type: none"> <li>• Health Services</li> </ul>
<p><b>Human Resources</b></p> 	<ul style="list-style-type: none"> <li>• Cosmetology</li> <li>• Education</li> <li>• Law Enforcement</li> </ul>
<p><b>Industrial &amp; Engineering Systems</b></p> 	<ul style="list-style-type: none"> <li>• Architecture &amp; Design</li> <li>• Automotive Service Technology</li> <li>• Building Construction</li> <li>• Electronics Technology</li> <li>• Manufacturing &amp; Engineering</li> </ul>

# AGRICULTURE, FOOD & NATURAL RESOURCES

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## If you enjoy...

- Working outdoors with plants, animals, or nature
- Helping others understand and enjoy their natural surroundings
- Learning about and managing our forests, parks, and wildlife
- Growing plants or animals to supply people with food
- Observing, investigating, analyzing, or solving problems related to plants, animals or nature

## Agriculture, Food & Natural Resources

### HIGH WAGE HIGH DEMAND CAREERS

Agriculture Educator  
Animal Nutritionist  
Crop Production Agronomist  
Farm & Ranch Manager  
Zoologist  
Veterinarian  
Wildlife Biologist

Tree Trimmer & Pruner  
Arborist  
Forester  
Logging Equipment Operator  
Environmental Scientist  
Conservation Scientist







# AGRICULTURE

## Survey of Agriculture & Natural Resources

183020910

<b>Grades:</b>	9, 10, 11
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1

This course is intended for 9th-grade students and serves as the introduction and foundation course toward advanced courses and pathways in agriculture, animal and plant sciences, forestry, and natural resources. Taught on the Sabin campus, topics include “hands-on” application in areas of the agriculture industry, natural resources, wildlife management and forestry practices, animal science, food science, plant science, and horticulture as well as record keeping, leadership, and personal growth development. Participation in FFA student organization activities is an integral course component for leadership development, career exploration, and reinforcement of academic concepts. This course qualifies students to participate in all local, state, and national FFA events/activities throughout the year as an official state and national FFA member.

## Animal Science 1

180011910

<b>Grades:</b>	9, 10, 11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2

An introduction and foundational course in agriculture, this course is taught on the Land Lab, a 10-acre school farm that includes barns, livestock, greenhouses, an orchard, and pastures. Topics include “hands-on” application in areas of the agriculture industry including animal science, food science, plant science, and horticulture as well as record keeping, leadership, and personal growth development. Participation in FFA student organization activities is an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

## Animal Science 2

181011910

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Animal Science 1 or Exploring Agriculture & Natural Resources

Focuses on animal care and skills used in the veterinary field. This class is taught on the Land Lab, a 10-acre school farm that includes barns, livestock, greenhouses, an orchard, and pastures. Study biological systems, comparative anatomy, laboratory procedures, soil and plant sciences. Record keeping, sales, and agribusiness management skills are included in the curriculum. Participation in FFA student organization activities is an integral course component for leadership development, career exploration, and reinforcement of academic concepts.



**Animal Science has given great academic and real-life growth opportunities, and it has made me feel more prepared for a career surrounding agriculture and animals.**

-- Shayla CHS, 11 --



# AGRICULTURE

“

**The best part about this class is that the diverse curriculum creates future scientists, agriculturists, teachers, entrepreneurs, business leaders, and premier professionals in many career fields. Personally, my participation in this class and in the FFA has made me a better leader and taught me many career skills that I will use to become a veterinarian.**

-- Isabelle CHS 12 --

”

## Animal Science 3

183041910

<b>Grades:</b>	11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Animal Science 2
<b>College Credit:</b>	Yes
<b>CFP:</b>	Science (see description)

Taught on the Land Lab, students develop a deeper understanding of food, animal, and plant production cycles, including reproduction, and biotechnology. Farm Business Management concepts are taught and applied to the farm setting. Students study and conduct research in animal food and nutrition, genetics and reproduction, biotechnology, and animal health. Life science credit requires completion of Animal Science 3 and Adv. Ag Research. Participation in FFA student organization activities is an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

## Advanced Agricultural Research 180021910

<b>Grades:</b>	12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Animal Science 3
<b>College Credit:</b>	Yes
<b>CFP:</b>	Science (see description)

Taught on the Land Lab, students learn business management skills and computer applications used in the agriculture industry: decision-making, goal setting, budgeting, financial analysis, sales, marketing, and scientific research. Farm Business Management concepts are taught and applied to the farm setting. Life science credit requires completion of Animal Science 3 and Adv. Ag Research. Participation in FFA student organization activities is an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

## Ag Intern 181481920

181481920

<b>Grades:</b>	11, 12
<b>Frequency:</b>	Varies
<b>Course Length:</b>	Semester
<b>Credits:</b>	Varies

Students apply teamwork, communication, problem solving, time management, employment foundations, and career development. Internship opportunities may be located at the school farm or off site.





# FORESTRY & NATURAL RESOURCES

## Survey of Agriculture & Natural Resources

183020910

<b>Grades:</b>	9, 10, 11
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1

This course is intended for 9th-grade students and serves as the introduction and foundation course toward advanced courses and pathways in agriculture, animal and plant sciences, forestry, and natural resources. Taught on the Sabin campus, topics include “hands-on” application in areas of the agriculture industry, natural resources, wildlife management and forestry practices, animal science, food science, plant science, and horticulture as well as record keeping, leadership, and personal growth development. Participation in FFA student organization activities is an integral course component for leadership development, career exploration, and reinforcement of academic concepts. This course qualifies students to participate in all local, state, and national FFA events/activities throughout the year as an official state and national FFA member.

## Forestry 1

185021910

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>College Credit:</b>	Pending

Introduces a wide range of natural resources careers. Course instruction includes how to operate forestry related tools and equipment including chainsaws, identify tree species, use navigation tools and read maps. Students discover the importance of balancing economic, social and environmental needs with finite natural resources. Students may participate in forestry related competitions. Leadership opportunities through the Future Natural Resource Leaders (FNRL) and the FFA include debate, community service, and public speaking. Coursework takes place in a classroom, outdoors, and off-site. Outdoor clothing is required.

“

**Forestry showed me a lot about myself and taught me many valuable career skills in my three years with the program, all while I made some of the best memories of my life.**

--Austin MHS 12--

”

## Forestry 2

185041910

<b>Grades:</b>	11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Forestry 1 or Exploring Agriculture & Natural Resources

Continues to develop skills learned in Forestry 1, with added emphasis on theory and scientific principles. The majority of class instruction is outdoors and hands-on. Students learn from and work with natural resources and forestry industry professionals, both on and off campus. Students participate in the Sabin-Schellenberg Future Natural Resource Leaders and FFA with an emphasis on leadership and career skills. Outdoor clothing is required.

## Forestry 3

185042910

<b>Grades:</b>	12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Forestry 2
<b>Internship:</b>	Yes

Advanced Forestry 3 students demonstrate learning in a supervised simulated work environment, applying previously learned techniques. Working with industry professionals, students engage in self-directed projects. Students participate as leaders in the Sabin-Schellenberg Future Natural Resource Leadership organization and FFA, focused on premier leadership, personal growth and career success. Outdoor clothing is required.





# ARTS, INFORMATION & COMMUNICATIONS

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Do you like...

- Expressing ideas and feelings visually, verbally, musically, or physically
- Speaking or performing in front of others
- Creating through use of multiple platforms
- Using your imagination or creativity for work
- Interested in music, theater, creative design, photography, writing, and/or video production

## Arts, Information & Communications

### HIGH WAGE HIGH DEMAND CAREERS

Producer & Director  
Public Relations Specialist  
Technical Writer  
Multimedia Artist

Art Director  
Animator  
Graphic Designer  
Web Developer

Computer Programmer  
Software Developer  
Game Developer  
App Developer





# BROADCASTING & SOCIAL MEDIA

## Radio Broadcasting

110514920

<b>Grades:</b>	9, 10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Semester
<b>Credits:</b>	0.5

Students produce their own radio show and broadcast over the internet. As producers, they plan their own format, choose their own music, decide their listener base, and plan how they will make a profit running their own radio show. Students use Garageband and iTunes to create their own commercials for radio while learning how to promote their station. Students will create personal podcasts hosted on Podbean. Team projects include producing an old time radio show where character voices are created. Successful completion of this course will prepare students for Broadcasting & Social Media 1.

## Sports Broadcasting

110515920

<b>Grades:</b>	9, 10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Semester
<b>Credits:</b>	0.5

Working in teams, students learn play-by-play announcing using NFL Madden and NBA2K on Xbox1. Students cover home sporting events with digital cameras and learn to edit and produce a sportscast. Students will create their own sports show broadcast live out of the KNCB television studio with sports packages created by fellow sportscasters. Successful completion of this course will prepare students for Broadcasting & Social Media 1.

“

**I realize how much I have grown as a leader. I had to step up and take charge on a couple projects and take responsibility for issues and any mishaps that may have happened. Now with the many projects I have been a part of, leadership has been something I have continued to grow over the years and I plan on being a leader throughout the rest of my life.**

-- Zack CHS 12 --

”





# BROADCASTING & SOCIAL MEDIA

## Broadcasting & Social Media 1 110511910

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	1 period -- every day
<b>Course Length:</b>	Year
<b>Credits:</b>	2

Imagine producing a music video with a local band, creating a 3D animation program for children, or writing and filming a live soap opera in front of a green screen that transports you to anywhere on the planet. Students in this entry-level course have multiple opportunities to explore all aspects of the broadcasting and social media businesses. We use the Oculus 2 headsets to take on the real and the virtual world. All of your productions will air on the local cable access channel as well as our YouTube channel.



## Broadcasting & Social Media 2 110512910

<b>Grades:</b>	11, 12
<b>Frequency:</b>	1 period -- every day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Broadcasting & Social Media 1
<b>College Credit:</b>	Yes

Students become independent producers working with DSLR cameras, 360 cameras and audio equipment to produce films, tackle major documentaries and television shows while learning about social media and the impact on society. Virtual Reality becomes more of a focus with use of state-of-the-art equipment preparing students for careers in communications, the media and broadcasting. Projects air on the district cable television channel, YouTube channel and are submitted into national competitions for scholarships and awards.

## Broadcasting & Social Media 3 110513910

<b>Grades:</b>	12
<b>Frequency:</b>	1 period -- every day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Broadcasting & Social Media 2
<b>College Credit:</b>	Yes
<b>Internship:</b>	Yes

Students become producers as Levels 2 and 3 work together in making a feature-length film, tackle video projects for various companies, non-profits and others. Using our green screen, students produce their own video projects, preparing them for college and careers in media. Internships are available during second semester. Students in Adv. Journalism work in tandem with level 2/3 on various projects.

“

**I love being a cameraman.  
To be able to shape an  
idea. To have the power to  
shape an image - it fills me  
with power!**

-- Mauricio CHS 12 --

”





# BROADCASTING & SOCIAL MEDIA

## Journalism

111013920

<b>Grades:</b>	9, 10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Semester
<b>Credits:</b>	0.5

Students are active journalists in this class, uncovering and reporting on stories that have meaning to them. This class is for those who love writing to learn how to communicate through interviews with newsmakers. Basic journalism skills enable students to understand how important an independent press truly is for a democracy. By working in teams and then as individuals, journalists will gain new skills in writing, asking questions, setting up interviews, and how that will translate into providing new information via our on-line news source, *The Compass*. Those interested in photojournalism, sports, or video news reports will also have opportunities to learn new techniques. Class may be repeated for credit.

“

**I was really interested in journalism and writing. I took AP English and wanted to tell my story.**

-- Alexandria CHS 12--

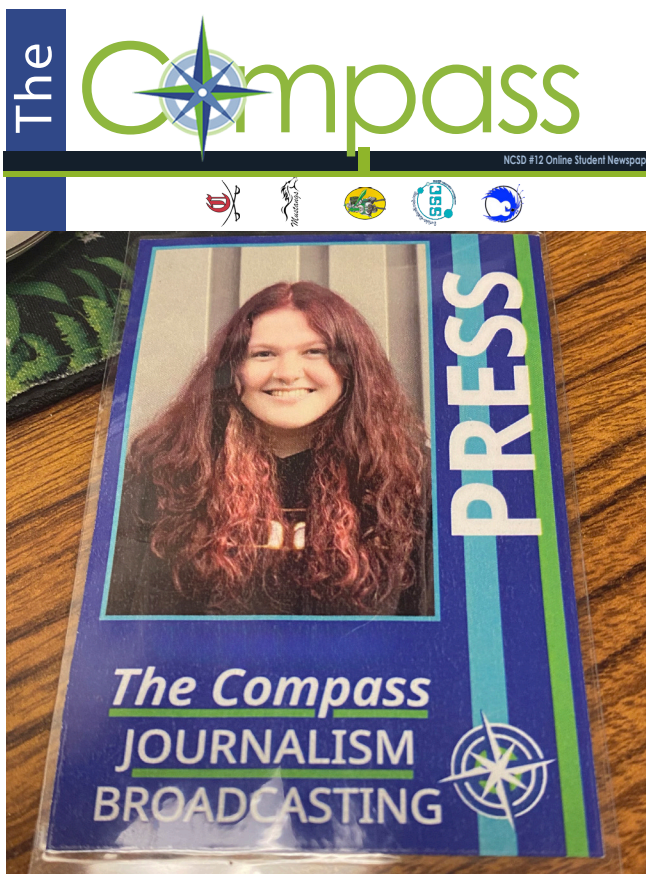
”

## Advanced Journalism

111012910

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1
<b>Prerequisite:</b>	Journalism
<b>College Credit:</b>	Yes

Students take on the leadership positions of the district's online newspaper, *The Compass*. Students in this class will become the editors of areas of the newspaper and will become members of the editorial board. Each student will learn more about student rights and responsibilities, the First Amendment, the Student Press Law Center, and ethics in journalism. Students will work independently and should expect to work outside of class while meeting deadlines. Class may be repeated for credit.





# DIGITAL DESIGN

## 2D Animation

102021920

<b>Grades:</b>	9, 10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Semester
<b>Credits:</b>	0.5

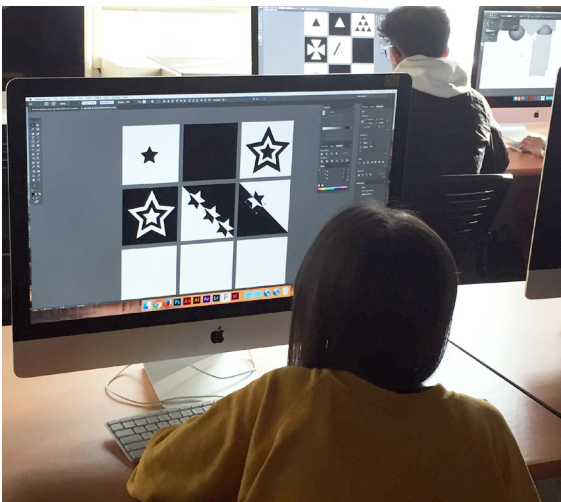
2D Animation is a course for storytellers and artists of all levels. Through digital art and design we explore the same animation techniques used by professional animators. Make a character walk, a ball bounce and more using Adobe Animate. Students will learn how to apply tweens, use panning effects, create scene transitions, and rig a character. For their final project, students develop storyboards, backgrounds, and characters as they build their own animated short film. 2D Animation students learn the tools they need to bring images and stories to life, and expand their understanding of design, digital illustration, and visual communication.

## Graphic Design 1

111551910

<b>Grades:</b>	9, 10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1
<b>College Credit:</b>	Yes

Create visual solutions to communication problems. Students learn and use Adobe Illustrator, InDesign and Photoshop to create graphic layouts, posters, logos, signage, and a variety of other projects. Process is emphasized in this course through the exploration of a variety of design challenges replicating a design based work environment.



## Graphic Design 2

111552910

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Graphic Design 1
<b>College Credit:</b>	Yes

Students continue to explore the field of digital & graphic design by working on a combination of independent and team based projects. They will develop skills in different types of design applications using vector and pixel based formats to develop various products such as stickers, textiles, 3-D printing and web applications. Students will work with real clients and have the opportunity to interact with and receive feedback from practicing design professionals.

“  
**After participating in this program I love working with all of the Adobe programs (Photoshop, Illustrator, InDesign, and Lightroom). With the guidance of this program I have decided that this is what I want to do for my career. My education in the graphic design program helped solidify my passion for the digital arts while also preparing me with the skills to work well with others, problem solve, and meet deadlines.**  
 ”

-- Malia CHS 12--



# DIGITAL DESIGN

## Graphic Design 3

111553910

<b>Grades:</b>	11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Graphic Design 2

Students continue to expand knowledge and skills developed in prior Digital Design classes while producing a web-based digital portfolio of quality projects and prototypes. They will take a leadership role in the Digital Design program by managing design and development teams working on real projects for clients. This year-long course will culminate with a self-determined design project that incorporates Illustrator, Photoshop and InDesign in their digital portfolio.



“

**I always wanted to create artwork digitally but had no idea where to start. Adobe Illustrator and Photoshop is hands down the best software to learn. You'll meet amazing clients that will use your artwork outside of school. My advice is to always ask questions of your client so that you can gain a better vision of what your artwork will be.**

-- Ivan CHS 12 --

”

## Advanced Studio Intern

111541920

<b>Grades:</b>	11, 12
<b>Frequency:</b>	Varies
<b>Course Length:</b>	Semester
<b>Credits:</b>	Varies
<b>Prerequisite:</b>	Graphic Design 2 or 3

Teamwork, communication, problem-solving and productivity are applied in building employment and career foundations. Interns are expected to interact with clients and complete projects on time as part of a student-based enterprise that provides design services within the school, the district and surrounding community or through a personally designed curriculum to connect the student to a specific area of interest. Intern design work will become part of an online portfolio for future use in career and college applications.





# PROGRAMMING & CODING

## Intro to Programming & Coding 101601920

<b>Grades:</b>	9, 10, 11
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Semester
<b>Credits:</b>	0.5

Start with block-based programming through Code.org, MIT Scratch and MIT App Inventor to create apps, animation and games. Learn how to make computers work together, how to use the design process, logic and debugging and how these skills relate to careers in video game, app and web development and information technology.

## Programming & Coding 1 101561910

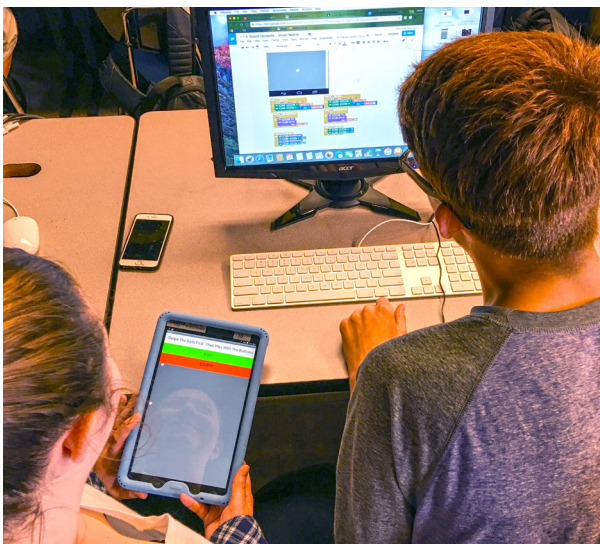
<b>Grades:</b>	9, 10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1

Students in Programming & Coding 1 learn the computer programming language Python through CodeHS and apply it to problem solving with computers. Start with learning commands that translate into code, then move on to writing code. Explore careers that use programming or coding. Having background knowledge in block coding, commands and terminology is helpful, but not required.

## Programming & Coding 2 101562910

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	1 period -- every day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Programming & Coding 1

Programming and Coding 2 focuses on further developing computational thinking skills through the medium of Android™ App Development for mobile platforms. The course utilizes industry-standard tools such as Android Studio, Java™ programming language, XML, and device emulators. Students collaborate to create original solutions to problems by designing and implementing user interfaces and Web-based databases. This course aligns with the AP Computer Science A Exam. This curriculum prepares students for many cutting-edge technology based careers, including video game development, app development, web development, and information technology. Transferrable skills developed in this course include the use of the design process, logic, debugging, and client-based communication. Related content areas include electrical engineering, digital animation, and computer aided design.



“  
Whenever I do coding assignments, they don't seem like work. You don't even realize you're learning until you see how far you've come.  
”

-- Josh MHS 12 --



# BUSINESS & MANAGEMENT

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## If you enjoy...

- Planning and running the activities of an organization
- Working in structured environments with clear guidelines or rules
- Doing detail work with numbers or words in an organized and efficient manner
- Persuading or convincing others of your point of view
- Leading others to accomplish goals of the organization
- Marketing products or ideas to others
- Planning meals and finding interesting ways to prepare or cook food

## Business & Management

### HIGH WAGE HIGH DEMAND CAREERS

Accountant  
Advertising Agent  
Buyer  
Entrepreneur  
Market Research Analyst  
Marketing & Sales Manager  
Publicist  
Sales Representative

Food Service Manager  
Purchasing Manager  
Food Science Technician  
Chef & Head Cook  
Meeting, Convention, Event Planner





# BUSINESS & MANAGEMENT

## Accounting 1

121041910

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1
<b>College Credit:</b>	Yes

An introduction to accounting, the language of business. Students learn how to record daily business transactions and how to prepare and analyze financial statements to determine if a business has a net income or a net loss. Students also learn about the stock market, how to use credit wisely and discover how to make sound personal financial decisions. All class work is completed online using accounting software. Recommended for students who plan to major in Business.

## Accounting 2

121042910

<b>Grades:</b>	11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1
<b>Prerequisite:</b>	Accounting 1
<b>College Credit:</b>	Yes

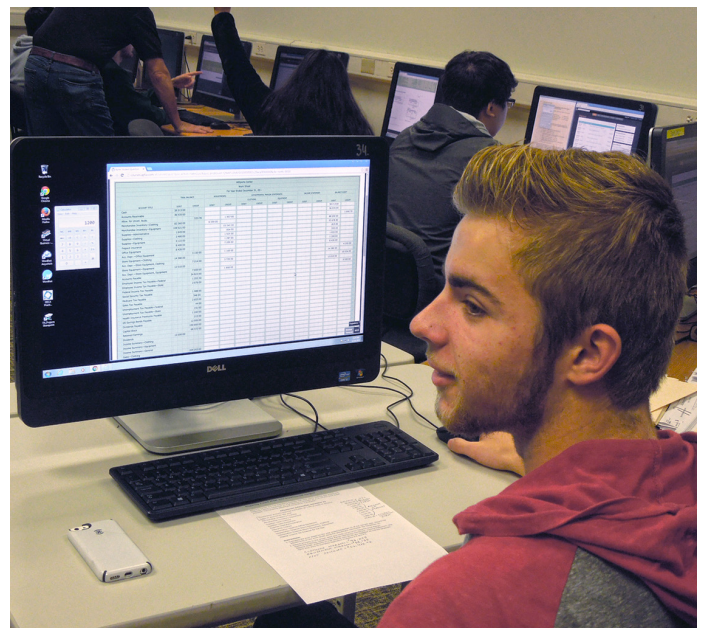
Focuses on corporate accounting for a departmentalized business. Students expand their knowledge of accounting concepts and apply them to various situations including inventory, depreciation and recording bad debts. Students learn about stocks and bonds and how to use cost accounting to determine the cost of developing a new product. All class work is completed online using accounting software.

“

**I took Accounting 1 & 2 because everybody needs to know how to do accounting for their taxes. The material we learn in this class builds on the previous lessons so every class I am building on my knowledge. In advance accounting we are working on real life applications that I can see myself referring to in the future**

-- Phi ANHS 12 --

”





# BUSINESS & MANAGEMENT

## Business & Management 1 121641910

<b>Grades:</b>	9, 10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1
<b>College Credit:</b>	Yes

Introduces the career area of business and Bizmart management. Students apply business skills as employees in the SSC Student Store. All aspects of retail management are explored and applied: retail operations, retail marketing, customer service, cash handling/cashiering and business communication. Students begin to understand professional standards and how projects are managed, products developed, quality assured, and business risk handled. Students may join DECA, a professional association for students interested in business and marketing. Students must have a valid Oregon Food Handler's Card.

“

**I love the business program because it has taken me to so many new places, allowed me to meet so many new people, and grown my confidence, leadership, and professionalism skills.**

-- Jennifer MHS 11 --

”



## Business & Management 2 121661910

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	1 period -- every day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Business & Management 1
<b>College Credit:</b>	Yes
<b>CFP:</b>	Language Arts (see description)

Students manage a department, create strategic plans, conduct marketing research, develop promotions, order and maintain inventory and complete financial analysis. Business ownership is explored through management of the SSC Student Store, writing business plans and DECA events. Students develop their own management style and apply skills in retail and entrepreneur environment. Teamwork, communication, problem solving and productivity are professional standards applied in a management role. Credit for Proficiency in Language Arts requires completion of a portfolio of evidence with assignments in both Business & Management 2 and Advanced Business Projects. Participation in DECA, a professional organization for students interested in business and marketing, provides students with leadership opportunities and career skills. Students must have a valid Oregon Food Handler's Card.

## Business & Management Intern 121991920

<b>Grades:</b>	11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Semester
<b>Credits:</b>	0.5
<b>Prerequisite:</b>	Business & Management 2
<b>College Credit:</b>	Yes
<b>Internship:</b>	Yes

Teamwork, communication, problem solving, productivity and professional standards are applied in a supervisory role in a student run business. Students apply human resources management skills including training, supervising/monitoring and evaluating Level 1 students with the support of an experienced industry professional technical assistant. Participation in DECA, a professional association for students interested in business and marketing, provides students with leadership opportunities and career skills. Students are responsible for maintaining a valid Oregon Food Handler's card.





# BUSINESS & MANAGEMENT

“

**Advanced is so student-led. There isn't a specific curriculum that you're going off of, it's like college and I have to figure it out myself. I'm working on a school based enterprise project about the operations, distribution and marketing sides of the student store.**

-- Abby G. CHS 12--

”

## Advanced Business/ Management Projects

**120523910**

<b>Grades:</b>	11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1
<b>Prerequisite:</b>	Business & Management 2
<b>College Credit:</b>	Yes
<b>CFP:</b>	Language Arts (see description)

This course is designed for DECA officers and active DECA members to expand their knowledge and understanding of business and management through individualized curriculum. Students work individually and on teams applying standard business practices, policies and procedures, writing professional business reports, and developing business presentations using advanced DECA project guidelines. Students often collaborate with local businesses on their student projects. Students will demonstrate professional standards through DECA activities and competitions including Virtual Business Challenge, and School Based Enterprise competition as well as State and International Career-Development Conferences. Credit for Proficiency in Language Arts requires completion of a portfolio of evidence with assignments in both Business & Management 2 and Advanced Business Projects.

## Marketing 1

**120521910**

<b>Grades:</b>	9, 10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1

Dive into the fast-paced world of marketing with this year-long course designed to provide students with a strong foundation in marketing principles and practices. This course offers students an in-depth look into the dynamic world of digital marketing, branding, advertisements, and strategic partnerships across product and service industries. Students will delve into marketing concepts, strategies, and models, learn the art and science of building powerful brands, and understand the essential tools of market research that drive strategic business decisions.

## Marketing 2

**120522910**

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1
<b>Prerequisite:</b>	Marketing 1
<b>College Credit:</b>	Yes

Take your marketing skills to the next level with Marketing 2. This course builds on skills learned in Marketing 1 and emphasizes the essential elements of effective communication, presentation, and collaboration within a marketing context. Students will explore the advanced principles of persuasive communication in marketing, master the art of creating comprehensive business proposals, and learn the dynamics of working in cross-functional teams. They will also acquire project management strategies used within most business environments. By the end of this course, you will have advanced communication skills and an understanding of how to strategize, present, and collaborate within a cross-functional team.







# CULINARY ARTS

## Intro to Culinary Arts

160531920

<b>Grades:</b>	9, 10
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Semester
<b>Credits:</b>	0.5

Introduces the basic cooking skills used in food industry careers as well as everyday life. Students will obtain an Oregon Food Handler's Card in this course. The Oregon Food Handler's Card is required to take additional Culinary Arts courses. Students learn basic baking skills, culinary vocabulary, recipe conversions, restaurant concepts and menu planning. Other topics taught in this course include: Food safety and sanitation, proper use of commercial kitchen equipment, knife skills and knife safety, and basic nutritional food consumption concepts.

## Intro to Culinary Arts for Juniors/Seniors

160532920

<b>Grades:</b>	11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Semester
<b>Credits:</b>	0.5

This Intro Culinary course (described above) is for Juniors and Seniors.



## Culinary Arts 1

160011910

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Intro to Culinary Arts, Oregon Food Handler's Card
<b>College Credit:</b>	Yes

Students will begin to build a foundation of culinary skills and knowledge by focusing on eight specific culinary units including cooking methods, sauces and plate composition, advanced baking and patisserie, garde manger, hotel and restaurant management, dining room service, nutrition, international cuisine, and catering. Within these units students will practice fundamental skills such as safety and sanitation, knife skills, weights and measures. Students explore many different career opportunities and develop employability skills by practicing professionalism and interacting with industry professionals. This class is articulated with Lane Community College allowing students to earn advanced college credits as well as Career Related Learning Experience required for graduation.

**I love the leadership possibilities, I am passionate about baking and I enjoy competition, and participating in SkillsUSA helped me improve my communication, teamwork and leadership skills.... to be put in an environment where you have to compete as well as learn and meet new people helps you develop a better lifestyle in the long run.**

-- MaKenna MHS 12 --



# CULINARY ARTS

## Culinary Arts 2

160571910

<b>Grades:</b>	11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Culinary Arts 1 and Oregon Food Handler's Card
<b>Internship:</b>	Yes

Students build on the fundamentals of food production, meat fabrication, menu development, professionalism, time management and safety and sanitation in a full service deli/diner and catering company open daily for breakfast and lunch. Students will rotate through the six stations in Sabin Deli learning customer service and point of sale systems; desserts and pastries, food preparation, produce daily lunch specials, and work multiple stations cooking hot food from scratch to-order. Students will also learn high volume food production and presentation as they cater events in the school district and around the community. Students will be exposed to guest speakers from industry and postsecondary education and field trips as they explore careers in the food and hospitality industry. Students are required to maintain a valid Oregon Food Handler's Card.

## Culinary Arts 3

160521910

<b>Grades:</b>	12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Culinary Arts 2 and Oregon Food Handler's Card
<b>Internship:</b>	Yes

In a management role, students are responsible for the training and supervision of Level 2 students as they progress through the various stations in the daily operation of Verte Deli. Level 3 students assist with special projects such as large scale catering events and the daily flow of kitchen operation as well as the development and completion of a senior project focused on community service and/or improving the educational experience of future students taking the class. Students are required to maintain a valid Oregon Food Handler's Card.

## Culinary Intern

160522920

<b>Grades:</b>	11, 12
<b>Frequency:</b>	Varies
<b>Course Length:</b>	Semester
<b>Credits:</b>	Varies
<b>Prerequisite:</b>	Culinary Arts 1 and Oregon Food Handler's Card
<b>Internship:</b>	Yes

Interns work in the on-campus Culinary Arts food service facilities. Teamwork, communication, problem-solving, and productivity are applied in building employment and career foundations. Students are required to maintain a valid Oregon Food Handler's Card.



**“My parents are very proud that I took culinary and can show them how to cook different recipes and can cook at home for them.”**

--Delores MHS 12 --

## Health Sciences

**HIGH WAGE  
HIGH DEMAND  
CAREERS**

**Dentist  
Dental Hygienist  
Pharmacist  
Physician & Surgeon  
Physician's Assistant  
Registered Nurse  
Nurse Practitioner  
Veterinarian**

# HEALTH SCIENCES

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**If you are interested in...**

- **Reading and learning about medical problems**
- **Investigating or analyzing scientific questions**
- **Learning how the body works**
- **Preventing or correcting health related issues**
- **Using science to solve medical problems**
- **Teaching and working with people to take care of their health**







# HEALTH SERVICES

## Survey of Health Sciences 140012910

<b>Grades:</b>	9, 10
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1

Focuses on helping students decide if they want to pursue a career in the medical field. Units include history of healthcare, general overview of human body systems, introduction to vital signs, medical terminology, safety issues, medical asepsis, proper use of medical equipment and aging. Students may not enroll in Survey of Health Sciences and Health Care Trends concurrently.

## Health Care Trends 140011920

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Semester
<b>Credits:</b>	0.5

Introduces students to the different aspects of health care careers and focuses on the medical field, ethics and professionalism, safety issues, Health Insurance Portability and Accountability Act (HIPAA), and communications. Guest speakers from the profession provide information on the latest trends in the field. Students may not enroll in Health Care Trends and another Health Services course concurrently.

## Health Sciences 1 140021910

<b>Grades:</b>	11, 12
<b>Frequency:</b>	1 period -- every day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>College Credit:</b>	Yes

Develops knowledge of medical terminology, human body structures and functions, microbes and diseases, and basic health care skills such as assessing vital signs. Build a knowledge base that supports all levels of further medical study. Health care professionals and guest speakers visit the classroom and share their journey and career pathway options.

“  
**Even if you're unsure about which SSC program you want to take, sign up for as many as you can. You will learn a lot, like in Health Service and even if you don't pursue it as your career, get the exposure. You may find your future calling.**  
 ”

-- Alycia CHS 12 --







# HEALTH SERVICES

## Health Sciences 2: Internships

149991910

<b>Grades:</b>	12
<b>Frequency:</b>	2 periods -- every day
<b>Course Length:</b>	Year
<b>Credits:</b>	4
<b>Prerequisite:</b>	Health Sciences 1
<b>College Credit:</b>	Yes
<b>Internship:</b>	Yes

The first eight weeks of this course focuses on patient care skills needed at internship sites. Students further explore career choices in-depth. Students are assigned to locations in the community for specific clinical internship experiences based on their career choice: physical therapy, surgical technology, diagnostic imaging, dentistry, nursing, obstetrics, veterinary medicine, respiratory therapy at multiple health care sites. Students may have opportunities to complete industry certificates such as Certified Nursing Assistant 1, Pharmacy Tech. and/or EKG Tech. Additional immunizations, criminal background check and drug screen are required by internship sites.



## Health Sciences 2: Seminar

149992910

<b>Grades:</b>	12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Survey of Health Sciences or Health Sciences 1
<b>College Credit:</b>	Yes

This course focuses on health care skills: CPR and First Aid certification, care and prevention of injuries, and wellness. Students learn about specific skills such as measuring vital signs, administration of First Aid and CPR, AED use, splinting, taping and casting. Whole body wellness, the anatomy and physiology of injury, and injury rehabilitation methods are explored.

**Overall, SSC has really made an impact on my future goals by not only helping me realize what those goals were, but also helping me figure out how I was going to achieve them.**

-- Lyllyan MHS 12--

# Human Resources

## HIGH WAGE HIGH DEMAND CAREERS

Hairstylist  
Manicurist/ Pedicurist  
Cosmetologist  
Skincare Specialist

Special Education Teacher  
Social Worker  
Teacher  
Play Therapist

Firefighter  
Police Dispatcher  
Fire Dispatcher  
Ambulance Dispatcher

Correctional Officer & Jailer  
Defense Attorney  
Federal Law Enforcement  
Patrol Officers  
Probation Officer



# HUMAN RESOURCES

## Do you enjoy...

- Helping others learn new things or acquire information
- Providing help or services to others
- Exploring how children, teens or adults learn new information or skills
- Learning about the law and our legal system
- Studying or assisting in family relations, child care, or human development
- Understanding how society works together and solves problems
- Helping people when they are in crisis or under stress



# COSMETOLOGY

## Cosmetology Concepts

191491920

<b>Grades:</b>	9, 10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Semester
<b>Credits:</b>	0.5

Introduces the field of cosmetology by exploring nail technology, esthetics and hair design. Students learn color theory, nail care, nail art, thermal and long hair styling, esthetics and makeup techniques.

## Cosmetology 1

191041910

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Cosmetology Concepts recommended

Focuses on basic instruction and hands-on training in hair design (haircutting, styling, coloring and highlighting), esthetics (skin care and makeup) and nail technology (manicures and pedicures). Course includes lectures, lab and clinic time. Students practice services on mannequin heads and classmates. Students will explore the cosmetology industry with these activities: guest speakers and presentations from industry professionals and beauty schools, Guest Days (students practice on a guest), and Theatrical Hair Day. *Students earn hours toward licensure that may transfer to local beauty schools.*



## Cosmetology 2

191491910

<b>Grades:</b>	11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Cosmetology 1
<b>College Credit:</b>	Yes

Further develops the study of hair design and theory (coloring and permanent waving), esthetics and nail technology, practical application. Important management skills including client relationships, how to build a clientele, professional behavior, customer service, product knowledge and bookkeeping are introduced and practiced in a salon setting. Quarterly field trips are taken to local beauty schools. Industry professionals are periodically invited as guest speakers. The Salon is open to the public once a week. *Students earn hours toward licensure that may transfer to local beauty schools.*

## Cosmetology 3

191492910

<b>Grades:</b>	12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Cosmetology 2

This course is geared toward students who wish to pursue a career in Cosmetology. Students will refine skills and techniques learned in Cosmetology 2. Salon management skills and marketing are learned. Quarterly field trips are taken to local beauty schools. Students at this level have a larger responsibility in the management of the salon. The salon is open to the public once a week. *Students earn hours toward licensure that may transfer to local beauty schools.*

“  
**Confidence plays the biggest role in one’s performance, and what you learn at SSC will give you confidence.**

--Jennifer O. MHS 11 --





# EDUCATION

## Survey of Children, Youth, & Families 191531920

<b>Grades:</b>	9, 10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Semester
<b>Credits:</b>	0.5

This course is for students interested in careers with children, youth, and families. Through hands-on activities such as caring for Reality Infants, investigating and creating toys, and developing story-based activities for kids, students explore childhood development and care-based careers.



“

I have always wanted to work with kids in some way, shape, or form but this class gave me a real eye-opener and now I can never think of doing any other career besides becoming a teacher or social worker.

-- Jason PHS 12 --

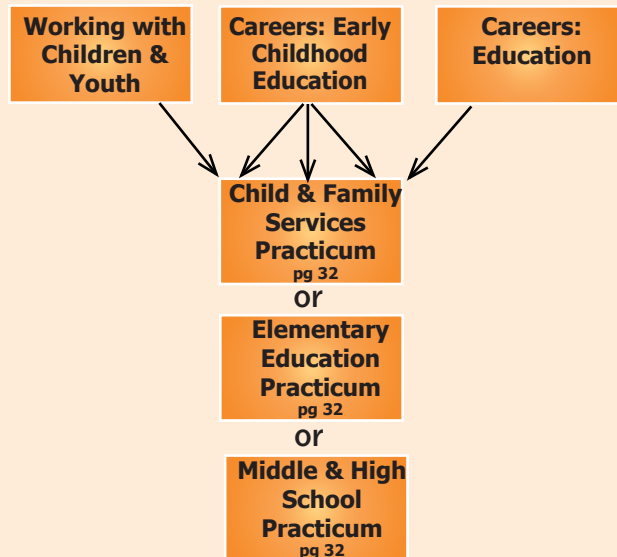
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## Working with Children & Youth 190511910

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2

Students assist in a lab preschool setting at the Early Learning Center with 3, 4 and 5 year olds while exploring human development, professionalism, guiding behavior, health and safety, learning environments and preschool curriculum. These concepts support working with children and youth, birth through adolescence. Students have an opportunity to receive certification for an Oregon Food Handler's Card. This course offers certification in the Oregon Registry for Childcare and Education at step 7. Preschool placements are subject to district and state guidelines for employees including immunizations, criminal background checks, and/or drug screening.

Upon successful completion of *Working with Children & Youth*, *Careers in Early Childhood Education*, or *Careers in Education* select one of three practicum experiences: *Child & Family Services*, *Elementary Education*, or *Middle & High School*.





# EDUCATION

## Careers in Early Childhood Education 191531910

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1

In this year long course students will explore career fields that work with and support children and their families from birth to age 5. Students will play an integral part in running the onsite Early Childhood Education preschool program by co-planning and preparing classroom activities, performing observations, and developing introductory job skills related to working with young children. Completion of this class is an alternate prerequisite to practicum and internship courses and is accessible for any sophomore, junior or senior.

## Careers in Education 191513910

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1

This course is an alternate prerequisite to practicum and internship courses and is accessible for any sophomore, junior or senior who is interested in working with families and youth from kindergarten through grade 12. Through group projects in schools, service learning, and job shadows, students will explore various careers connected to education both in and outside of schools as well as gain experience in elementary, middle, and high schools throughout the district

“

**I like the community that was built. Our class became a small family and I can't imagine my life without these people. I love working in a classroom setting and with kids.**

--Hannah MHS 11 --

”

## Education Practicum Child & Family Services 190521910 Elementary Education 191521910 Middle & High School 191512910

<b>Grades:</b>	11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Working w/Children & Youth, Careers:Early Childhood Education or Careers: Education

Building on the experience gained in the Working with Children and Youth course, this course is a combination of time with a mentor at elementary school and classroom seminars at Sabin. Students will deepen their understanding of educational practices and careers in a placement in an early childhood, elementary middle school or high school setting. May be repeated for credit. Practicum placements are subject to district and state guidelines for employees including immunizations, criminal background checks, and/or drug screening.

## Ed Intern Child & Family Services 190981910 Elementary 191981910 Middle & High School 191982910

<b>Grades:</b>	12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Corresponding Practicum course
<b>Internship:</b>	Yes

Building on the experience gained in the practicum courses, students deepen their knowledge working with children, youth and families in educational programs. This experience requires students to work independently to set their own goals/ learning outcomes, communicate with both mentor teacher and advisor, and gather evidence to demonstrate learning. Internship placements are subject to district and state guidelines for employees including immunizations, criminal background checks, and/or drug screening.





# LAW ENFORCEMENT

## Law Enforcement 1

150011910

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1

This course introduces students interested in legal careers such as law enforcement and security to the roles and responsibilities of various law enforcement professionals. Topics of study include criminal and constitutional law, police procedures, community policing, and ethics. Rich interactive activities, real-world case studies, and guest lectures teach students about the field's challenges and rewards while practicing the critical thinking, problem-solving, and effective communication skills used by law enforcement professionals.

## Law Enforcement 2

152021910

<b>Grades:</b>	11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Law Enforcement 1

Building on the Level 1 course, students go deeper into law enforcement and corrections fundamentals, essential patrol procedures, advanced defensive tactics, arrest techniques, patrol operations, investigative strategies, and special juvenile and adult corrections situations. The course also provides an introduction to the private security sector. This immersive learning experience is designed to equip students with the foundational knowledge and practical skills required for a successful career in the criminal justice system.

“

**A career in law enforcement is something I'm interested in and these classes have helped me greatly. I did not know how in-depth and how much training is required for law enforcement.**

-- Harrison RPHS 12--

”

## Law Enforcement 3

150531910

<b>Grades:</b>	12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Law Enforcement 2

Advanced law enforcement students study and practice the latest trends of Crime Scene Investigation (CSI). Learners will become proficient in documenting investigations through writing detailed reports. The curriculum engages students in contemporary philosophies, theories, and concepts of crime prevention and apprehension. This rigorous and applied learning experience is designed to prepare students for a successful career in law enforcement or related fields.

## Crime Scene Investigation

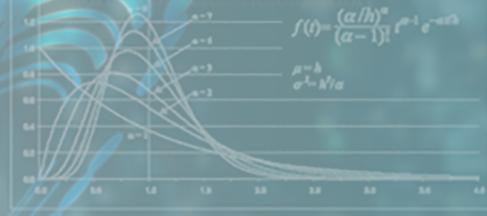
150532920

<b>Grades:</b>	11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Semester
<b>Credits:</b>	0.5

Immerse yourself in the thrilling world of Crime Scene Investigation with our CSI course. Hands-on exploration into modern forensics equips students with technical writing skills while exercising your investigative and logical thinking in a controlled environment. Students will document intricate details of investigations and learn the investigative aspects of the criminal justice process.







# INDUSTRIAL & ENGINEERING SYSTEMS

## Do you enjoy...

- Precision and accuracy
- Seeing how things work on the inside
- Making your own “new and improved” designs to solve problems
- Building, constructing or tinkering
- Working with tools, machines or technology
- Working with your hands to repair things

## Industrial & Engineering Systems

### HIGH WAGE HIGH DEMAND CAREERS

Architect

Civil, Industrial & Mechanical Engineer  
Cartographer

Automotive Service Technician  
Diesel Engine Specialist  
Mechanic

Electrical & Electronics Engineer  
Computer Programmer  
Industrial Engineer

Mechanical Engineer  
Computer-Controlled Machine Tool Operator  
Machinist

Sheet Metal Worker  
Structural Metal Fabricator & Fitter  
Welder

Carpenter  
Plumber/Pipefitter  
Cement Mason





# ARCHITECTURE & DESIGN

## Architecture & Design 1

211021910

<b>Grades:</b>	9, 10, 11, 12
<b>Frequency:</b>	2 periods -- Every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>College Credit:</b>	Yes

Discover how hand drawing, 3D modeling and 3D printing are used by architects, engineers and other designers to conceptualize and document their new products (buildings, consumer products, bridges, etc). Skills in AutoCAD, Revit and Inventor are then applied to students' own design projects.

## Architecture & Design 2

211031910

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	2 periods -- Every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Architecture & Design 1
<b>College Credit:</b>	Yes

Expand proficiency in the use of industry software as well as gain an understanding of design and construction through large scale, challenging, complex and sophisticated architectural or engineering projects. Create working drawings, 3D models, computer-generated renderings and physical models of original designs.

## Architecture & Design 3

211032910

<b>Grades:</b>	11,12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Architecture & Design 2

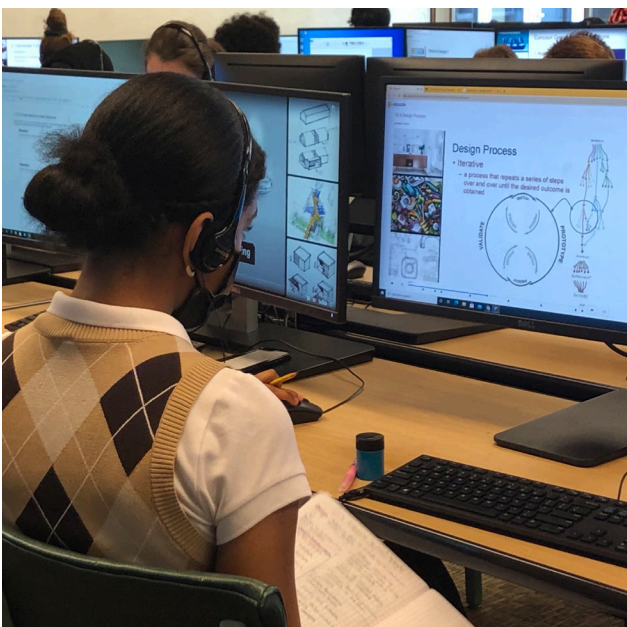
Explore advanced CAD tools and techniques (Revit3D or Inventor). Develop, visualize and present designs. Professionals from the Architecture, Industrial Design or Engineering fields mentor students.

## Architecture & Design 4

211034910

<b>Grades:</b>	12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Architecture & Design 3

Take a deep dive into architectural design. Choose a building type (residential or commercial) you are interested in designing, and develop this building design from early sketches to final presentation models. Use skills developed in earlier courses to work independently on a complex project and collaborate with local professionals to develop a portfolio for application to Architecture school and/or a starting position in the CAD industry.



“

**I have been taking the architecture and design class all four years. The class has helped me find my passion for CADD and has set me up with enough knowledge and skill to put me ahead going into college.**

--Cody PHS 12 --

”



# AUTOMOTIVE SERVICE TECH

## Automotive Service Technology 1 201031910

<b>Grades:</b>	9, 10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1
<b>College Credit:</b>	Yes

Automotive Service Technology 1 provides a foundational education for aspiring automotive technicians. A course emphasizing safety, tool and equipment proficiency, preventative maintenance, and basic repair skills equips students with the knowledge necessary to enter the field of automotive service confidently. Practical experience and theoretical understanding will ensure students are well-prepared for the challenges and responsibilities of working in a professional automotive shop.

## Automotive Service Technology 2 201041910

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Auto Service Tech 1, Valid Driver's License is Encouraged
<b>College Credit:</b>	Yes
<b>Internship:</b>	Yes

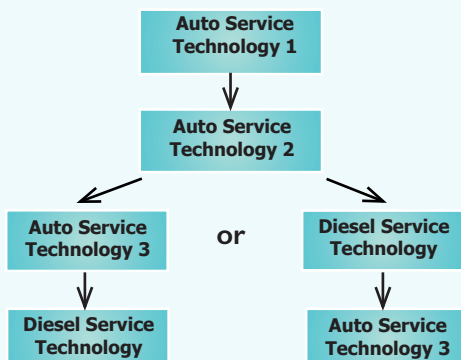
Students deepen foundational knowledge from Level 1 and develop advanced skills in automotive maintenance and light repair (MLR). Students engage in both theoretical learning and hands-on practice, adhering to industry standards to prepare for careers in the automotive service industry.

## Automotive Service Technology 3 201061910

<b>Grades:</b>	11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Auto Service Tech 2, Valid Driver's License recommended
<b>College Credit:</b>	Yes

Students deepen the skills and knowledge acquired in AST 2. Hands-on experience is emphasized, with students performing light maintenance and repair work on client vehicles under the supervision of experienced instructors. Industry and program mentorship provided to students during in-house and field placements. Students earn ASE factory certifications during this course using a self-guided program for the Maintenance Light Repair Certification. This certification opens employment opportunities in various fields and advanced placement in college automotive programs. Additional certification opportunities may be available. AST 3 serves as a bridge to higher-level opportunities, including continuing studies at automotive factory programs like Ford and Subaru. By the end of this course, students will have honed their technical skills, gained practical experience, and prepared themselves for advanced studies or entry into the workforce as skilled automotive technicians. May be repeated for credit.

Upon successful completion of Automotive Service Technology level 2, students choose one of two skills pathways to follow: AST3 or Diesel Service Technology.







# AUTOMOTIVE SERVICE TECH

## Diesel Technology & Maintenance 201071910

<b>Grades:</b>	11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	AST Level 2, Valid Driver's License recommended

This course is for students with two years of essential light maintenance and repair in Automotive Service Technology interested in expanding their knowledge into medium and heavy-duty diesel technology and maintenance. Students will train in the repair and upkeep of the Freightliner diesel engine using Freightliner and Volvo trucks, industry scan tools, and trainers for hands-on experience. Units of study include safety and shop skills, preventative maintenance and inspection, troubleshooting and repair of diesel engines, heavy-duty tires and wheels, air brakes, steering and suspension, and starting and charging systems. Additionally, students can earn industry certificates in Freightliner systems and ASE Medium-Heavy Trucks. May be repeated for credit.

## Automotive Upkeep 201032920

201032920

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Semester
<b>Credits:</b>	0.5

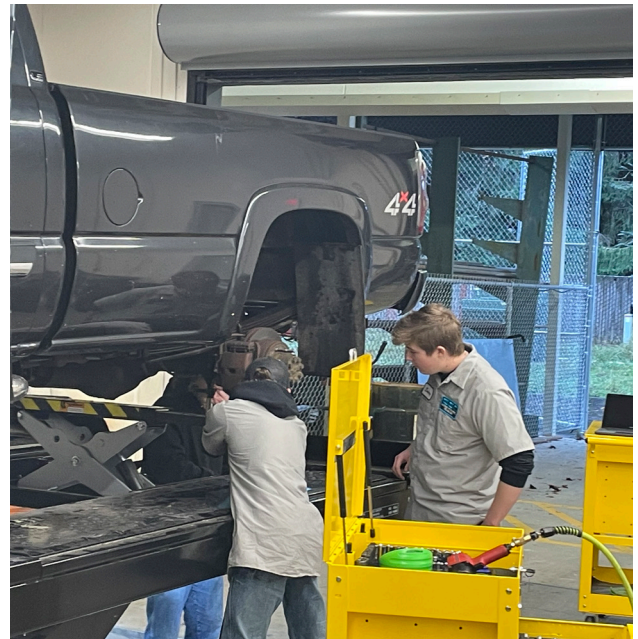
Introduces automotive care and repair. Students learn how an automobile operates and how to buy an automobile. Students will also learn basic automotive maintenance in these areas: auto care & cleaning, fluid level check, electrical, lubrication, cooling, exhaust, ignition and fuel systems, suspension and steering systems, tires and transmission. Common problems and roadside emergencies will be covered.

“

**Do what you're passionate about. Once you come into Level 1 it's kind of difficult, but once you accept that it's something you want to do you'll love it. Level 1 is a lot about safety, but Level 2-3 you're out in the shop and hands on training.**

-- Nathan G. CHS 11 --

”





# BUILDING CONSTRUCTION

## Geometry in Construction

020725910

<b>Grades:</b>	9, 10, 11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2

This course is for the student who wants to learn math through a more hands-on approach. We make connections between geometry and construction through group and individual projects. This course is also for students with career interests in architecture, design, or construction. Examples of smaller individual and group projects students have worked on include a class jenga game set, a geometric tiled centerpiece trivet, key chains, picture frames, wooden puzzles, cutting boards, mini-boxes and 3/4" balsa models that aid the student in exploring how larger structures are built. Larger group work has involved service projects in collaboration with Clackamas County Veterans Village and Camp Westwind. Taught by a math teacher and a construction teacher, students earn one Geometry credit and one CTE credit in Building Construction 1.

“

**It takes a lot of personal responsibility to be in this class. Be aware of your surroundings and stay safe and this class is a lot of fun. We sanded our tables and that was fun. The most challenging thing I'm proud of is that I've gotten to know my peers and work well with them.**

-- Adilee H. RPHS 10 --

”

## Building Construction 1

170041910

<b>Grades:</b>	9, 10, 11, 12
<b>Frequency:</b>	1 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1

This is a Construction-only option for students interested in building, making and design without Geometry & Data Reasoning math credit. Learn to use tools on the jobsite and equipment in the woodshop safely. Learn the components of a wall system; what goes in it (plumbing, electric and insulation) and what goes on it (sheathing, siding, sheetrock and even a bit of tiling). Second semester continue to practice their skills by making projects for themselves (cutting boards, key chains, wooden puzzles, etc) and for the community. Examples of past community-based projects include building small structures in collaboration with Clackamas County Veterans Village and remodeling the cabins at Camp Westwind on the Oregon Coast.

## Building Construction 2

170042910

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Geometry in Construction or Building Constr. 1

Expand carpentry skills in a hands-on learning environment. This course is a multi-level class and is taught as a rotating curriculum between residential construction and systems, interior and finish carpentry, cabinetry, and furniture making. Individual projects can include cutting boards, bookshelves, and boxes. Group projects include cabin renovation at Camp Westwind.





# BUILDING CONSTRUCTION

## Building Construction 3

170043910

<b>Grades:</b>	11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Building Construction 2

This course is for the student interested in a career in the construction or architecture industry, or wanting to expand their carpentry skills in a hands-on learning environment. This course is a multi-level class and is taught as a rotating curriculum between a focus on residential construction methods and systems. A focus on interior and finish carpentry, cabinetry, and furniture making.

## Building Construction 4

170491410

<b>Grades:</b>	12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Building Construction 3

This course is for the student interested who is ready to take on a leadership role in the program while expanding their carpentry skills through independent learning. This course is a multi-level class and is taught as a rotating curriculum between a focus on residential construction methods and systems. A focus on interior and finish carpentry, cabinetry, and furniture making.



“

Three years ago I had no skills that would make me money. Now with the help of Building Construction 3, I have a very happy and wealthy perception of my future. Not only that, I'm confident enough to leave a lasting impact on each and every jobsite I step foot in because of BC3.

-- Viviana F. MHS 12 --

”





# ELECTRONICS TECHNOLOGY

## Intro to Electronics Technology 171011920

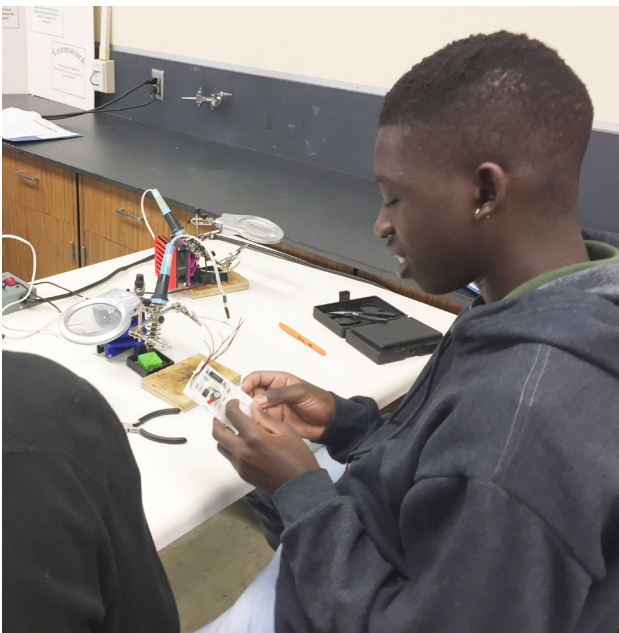
<b>Grades:</b>	9, 10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Semester
<b>Credits:</b>	0.5

In this semester class students will learn the basic principles and processes used in the high tech electronics assembly industry. Using safety, assembly and soldering skills students follow written directions and use electronic components to build the following projects: games, buzzers, light displays and prototype circuits.

## Exploring Electronics 171012910

<b>Grades:</b>	9, 10, 11, 12
<b>Frequency:</b>	1 period-- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1

In this year long class offers students the opportunity to build more projects as they learn the basic principles and processes used in the high tech electronics assembly industry. Using safety, assembly skills and soldering skills students follow written directions and use electronic components to build the following projects: games, buzzers, power supply, strobe light and prototype circuits.



“

**If you stick with it you'll be able to do a lot of hands on projects that take a lot of time, patience and problem solving. Learning how to use Multi Sim to make your own circuit boards, then testing them to see if they worked. That was lots of fun, we helped each other out.**

-- Carter B. CHS 11--

”

## Electronics Technology 1 171061910

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	1 period -- every day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Intro to Electronics Technology, Exploring Electronics or Engineering Robotics 1
<b>College Credit</b>	Yes

For students who have successfully completed Intro to Electronics Technology, Exploring Electronics or Engineering Robotics 1. Focuses on electronics theory, semiconductors, amplifier systems, digital systems and circuit board design. Computer circuit simulation is emphasized along with principles, processes, applications and skills needed in high tech industries. Safety is taught and tested throughout this course.



# ELECTRONICS TECHNOLOGY

## Electronics Technology 2

171491910

<b>Grades:</b>	11, 12
<b>Frequency:</b>	1 period -- every day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Electronics Technology 1
<b>College Credit:</b>	Yes

Further developing skills, students design and fabricate products using engineering formulas learned in Electronics Technology 1. Products are documented using the engineering standards of written, theoretical circuit descriptions. Computer circuit simulation and circuit board design are emphasized along with a Technical Skills portfolio that is presented to industry representatives.

## Electronics Technology 3

171492910

<b>Grades:</b>	12
<b>Frequency:</b>	1 period -- every day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Electronics Technology 2
<b>College Credit:</b>	Yes

This advanced robot course provides challenging and fun opportunities to put prior coursework into application. Using a robot platform students create electronic control systems for motion control, sensory inputs and microprocessors to embed artificial intelligence. Using sound recognition and optical output systems, students experiment with autonomous systems. The final product is a student-designed, autonomous robot that students take home.



**I like that I've become better at problem solving...for instance I had a project recently with two boards connected and one wasn't working. I've learned to stretch everything out, break it down, and pinpoint exactly what's going on.**

-- Devin MHS 12 --



# MANUFACTURING ENGINEERING

## Engineering Robotics 1 210091910

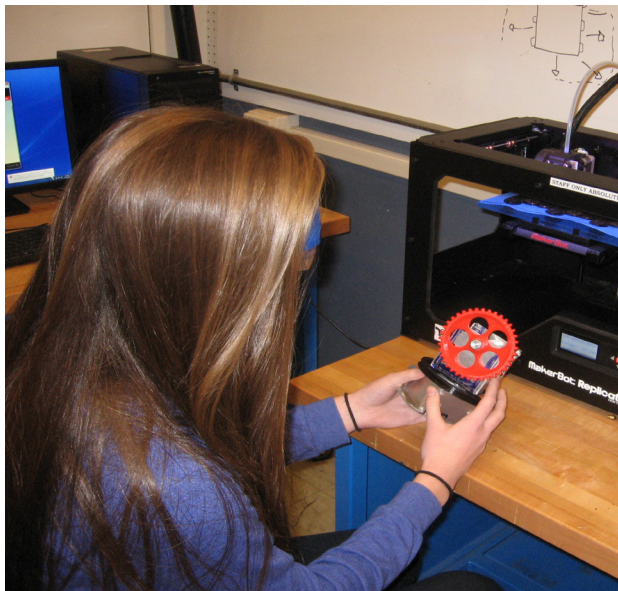
<b>Grades:</b>	9, 10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1

Students work with their hands to set up and operate equipment used to manufacture components that will help them design, assemble and build a robotic arm that they will take home at the end of the course. Introduces basic manufacturing and electronics skills including the use of basic electronic components, soldering and assembly circuit boards, and wiring motors and switches to control the robotic arm functions. This course is a prerequisite for Electronics Technology 1 or Manufacturing & Engineering 2: Machining.

## Engineering Robotics 2 210092910

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1
<b>Prerequisite:</b>	Engineering Robotics 1

Students begin to explore Arduino programming, breadboarding, solidworks CAD program and build a kit robot. Students will learn Solidworks, a CAD program, to create and assemble a 3D model.



## Survey of Manufacturing & Engineering 132031920

<b>Grades:</b>	9, 10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Semester
<b>Credits:</b>	0.5

Students will explore the manufacturing industry of machining and welding, learning basic skills on the manual mill, engine lathe, reading layouts and blueprints and welding. Students will complete one machined project and one weld project to take home.

## Machining 1 132021910

<b>Grades:</b>	9, 10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1

In this course students are introduced to machining processes and equipment. Students learn and practice skills including use of the manual mill and engine lathe and learn how to read layouts and blueprints. Students will make 3-4 projects to take home.

“

**It's like an art class, but you get the satisfaction of making something that functions.**

*Brionna J. RPHS 12*

”





# MANUFACTURING ENGINEERING - MACHINING

## Manufacturing & Engineering 2: 211062910 Machining

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Machining 1 or Engineering Robotics 1

In this course students will begin to expand their knowledge of manual lathe and mill operations. Design, machine and manufacture finished products either of your own design or from a select menu. Students learn the setup and operation of CNC (Computer Numerical Control). Safety is emphasized and tested throughout this course.

## Manufacturing & Engineering 3: 132043910 Machining

<b>Grades:</b>	11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Prerequisite:</b>	Manufacturing & Engineering 2 Machining
<b>College Credit:</b>	Pending
<b>Internship:</b>	Yes

In this course students will further explore the work of a precision machinist. Students complete self-paced projects. Students learn to use MasterCam and read and generate G&M code that is used in industry. Projects include complex parts as well as assemblies produced using Computer Numerical Controlled (CNC) automated machines. Students will complete the course work required to earn a certification from the Titans of CNC's online CNC mill course. Safety is emphasized and tested throughout this course.

“

**I plan to be an Airframe mechanic in the Air Force and the manufacturing and welding classes got me interested in this career. Classes are really helpful and you learn a lot of hands on skills.**

-- Harrison RPHS 10

”





# MANUFACTURING ENGINEERING - MACHINING

“

**I like the new concepts we learn at each level on the mill, lathe, computer and CNC. At this level we are learning how to center the cylinder and cut equal parts on the middle of each side using the mill.**

-- Bogdan S. CHS 11

”

## Manufacturing & Engineering 4: Machining 132044910

<b>Grades:</b>	12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Manufacturing & Engineering 3 Machining
<b>Internship:</b>	Yes

This level involves the design and production of highly detailed parts and projects in the engineering lab or machine shop. Self-paced projects include advanced application of CNC programming, lathe and mill operations. Students will complete the course work required to earn a certification from the Titans of CNC's online CNC lathe course. Safety is emphasized and tested throughout this course.

## Manufacturing & Engineering Intern 132481920

<b>Grades:</b>	11, 12
<b>Frequency:</b>	Varies
<b>Course Length:</b>	Semester
<b>Credits:</b>	Varies
<b>Prerequisite:</b>	Manufacturing & Engineering 3
<b>Internship:</b>	Yes

Intern positions are in our Manufacturing & Engineering facilities. Teamwork, communication, problem solving, and productivity are applied in building employment and career foundations. Students will work with industry partners. Students must have successfully completed or be simultaneously scheduled in Manufacturing & Engineering 3 or 4.





# MANUFACTURING ENGINEERING - WELDING

## Welding 1

132071910

<b>Grades:</b>	9, 10, 11, 12
<b>Frequency:</b>	1 period -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	1
<b>College Credit:</b>	Yes

In this year-long course, students will dive into the fundamentals of welding and fabrication, gaining hands-on experience and knowledge that paves the way for employment in the welding industry. This course offers students the opportunity to learn various welding techniques and practices, with no prior experience required.



## Manufacturing & Engineering 2: Fab/Weld

132022910

<b>Grades:</b>	10, 11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Welding 1
<b>College Credit:</b>	Yes
<b>Internship:</b>	Yes

Students aiming to become proficient in advanced arc welding and high-level fabrication techniques. The course will focus on hands-on project-based learning, adhering to American Welding Standards, and will emphasize safety in all aspects of the trade. By the end of this course, students will have developed the skills necessary for industry readiness in five key areas of arc welding, as well as advanced fabrication techniques.



American Welding Society

SSC is an American Welding Society  
Sense Entry Level 1 Certification Program.

## Manufacturing & Engineering 3: Fab/Weld

132073910

<b>Grades:</b>	11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Manufacturing & Engineering Fab/Weld 2
<b>College Credit:</b>	Yes
<b>Internship:</b>	Yes

Students expand their abilities while learning how to design and manage projects throughout the year. Students will learn repair techniques and production welding. This class uses all shop equipment as well as machine tools to fabrication parts, projects and tooling. Community projects will be the focus of this class. Students will also design and fabricate a final project using techniques and skills learned through levels 1, 2 and 3.

## Manufacturing & Engineering 4: Fab/Weld

132074910

<b>Grades:</b>	12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Manufacturing & Engineering Fab/Weld 3
<b>College Credit:</b>	Yes
<b>Internship:</b>	Yes

Design and fabrication of projects will be the main focus of this class. Students will work independently, focusing on all aspects of the manufacturing process. Students will apply skills of design, blueprints and welding knowledge to design and build self-guided projects. American Welding Society standards will be used and expanded upon during this class. Safety is taught and tested throughout this course.





# MANUFACTURING ENGINEERING - WELDING

## Manufacturing & Engineering 132081910 Welder Qualification

<b>Grades:</b>	11, 12
<b>Frequency:</b>	2 periods -- every other day
<b>Course Length:</b>	Year
<b>Credits:</b>	2
<b>Prerequisite:</b>	Manuf. & Engineering Fab/Weld 2
<b>College Credit:</b>	Yes

Students work through a self-paced full year program. Students work toward an American Welding Society (AWS) welding certification. Students will use the AWS d1.1 Structural steel code book as they work through welding certification. Upon certification students have met industry standards and are ready for the workplace. Students who successfully fulfill requirements in the first year of the Welder Qualification class may reapply for a 2nd year to pursue an additional AWS Qualification. May be repeated for credit.

## Manufacturing & Engineering 132481920 Intern

<b>Grades:</b>	11, 12
<b>Frequency:</b>	Varies
<b>Course Length:</b>	Semester
<b>Credits:</b>	Varies
<b>Prerequisite:</b>	Manuf & Engineering 3

Intern positions are in our Manufacturing & Engineering facilities. Teamwork, communication, problem solving, and productivity are applied in building employment and career foundations. Students will work with industry partners. Students must have successfully completed or be simultaneously scheduled in Manufacturing & Engineering 3 or 4.



**“  
I took welding because  
I wanted to have fun.  
Instead I had a blast and  
gained the start to a career,  
friends, and skills I didn’t  
know I had.  
”**

-- Davis CHS 12 --

# Parenting, Academics, Careers & Employment

PACE is a comprehensive high school diploma completion program for pregnant and parenting students (any gender between the ages of 13-21). PACE connects with a variety of community resources including the Clackamas County Department of Human Services, Healthy Start and the Clackamas Technical Education Consortium Youth Services to support students and their children. These agencies and the counseling offices at the NCSD high schools refer student parents to the program's coordinator. Students from other school districts may enroll with permission from the home district.

While PACE students are taking classes, on-site state certified childcare is available for babies and toddlers between six weeks and four years of age. Besides academic classes in language arts, math, science, and social studies, PACE students take classes on parenting and engage in career development and enrichment activities. Students can enroll in SSC and home high school classes to meet standard high school diploma requirements.



think outside the box...

# SSC Makerspace

a place to imagine, design & make

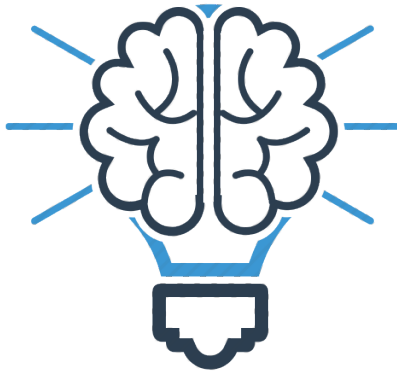
**BUILD**

**CREATE**

**INVENT**

**DESIGN**

**TINKER**



- *product design*
- *3-D printing*
- *3-D modeling*
- *laser cutting*
- *sewing machines*
- *CNC cutting*

**EXPLORE  
THE  
OPTIONS!**

*Don't know how to get started?  
There is a tech on staff to help students achieve and learn!  
Questions? Contact: [lenzend@nclack.k12.or.us](mailto:lenzend@nclack.k12.or.us)*

Open everyday during school and after school until 4:30 pm