

# GERVAIS HIGH SCHOOL



## 2019-20 CURRICULUM GUIDE

### **HOME OF THE COUGARS**

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### SCHEDULING BASICS

This handbook provides information about course requirements and course descriptions that will assist you with choosing your courses. You must fulfill requirements for graduation through required and elective courses within a 5 period, trimester schedule. Students earn one half-credit (0.5) for successfully completing each trimester class, which amounts to a possible 2.5 credits/trimester and 7.5 credits per school year. 24 credits are currently required in order to graduate. (See the chart on page 3 for more details)

Our school counselor, your teachers and your family should be able to assist you with any additional information or clarification needed to complete the schedule. All students are required to take five classes per trimester unless there is parent, administration and counselor approval for fewer.

Students are encouraged to “think ahead” and plan out all four years of their high school careers. Some of our courses are only offered on a rotating, every other year, basis. Some courses have pre-requisites (course that must be taken first). See pages 6 – 8 for additional course planning details.

## GRADUATION REQUIREMENTS

A. Credits toward graduation are granted after successful completion of course work. In order to graduate, students must successfully complete the credits listed below in the following areas:

SUBJECT AREA	CREDITS REQUIRED
<i>English</i>	4.0
<i>Mathematics (Algebra 1 and above)</i>	3.0
<i>Social Science</i>	3.5
<i>Science</i>	3.0
<i>Arts, Second Language, Career Technical, Agriculture</i>	3.0
<i>Health Education</i>	1.0
<i>Physical Education</i>	1.0
<i>Senior Survey</i>	0.5
<i>Electives</i>	5.0
<b>TOTAL</b>	<b>24 Credits</b>

B. In addition to the accumulation of 24 credits, in order to graduate from Gervais HS students must also complete:

- “Essential Skills” requirements in Reading, Writing and Math.
- Community service hours (For seniors for 2019-20 the required number of hours = 40).

### COMMON ENTRANCE REQUIREMENTS - PUBLIC COLLEGES & UNIVERSITIES

- **English** – 4 credits (must include college-prep courses if available)
- **Science** – 3 credits (recommended that classes include at least one lab science)
- **Social Studies** – 3 credits
- **Math** – 3 credits (Algebra I, Geometry, Algebra II or higher)
- **Foreign Language\*** – 2 years of the same language is highly recommended, though some colleges don’t require a foreign language

**Note:** Most public colleges and universities require at least a 2.75 GPA for entrance, but some will do a probationary Acceptance if a student’s cumulative GPA is <2.75.

### CRITERIA FOR VALEDICTORIAN and SALUTATORIAN

- The overall GPA of all senior students at the end of the final trimester of the senior year will be used to determine a salutatorian and valedictorian. The highest GPA will determine the class valedictorian and the 2<sup>nd</sup> highest the class salutatorian. In the case of ties course difficulty will be considered (advanced coursework, college coursework, etc.)
- The salutatorian and valedictorian must have been enrolled in a high school program for four years.
- The salutatorian and valedictorian must have been enrolled at Gervais H.S. for all three trimesters of the senior year.
- The salutatorian and valedictorian must have been enrolled in at least 4 classes each of the first two trimesters of the senior year.
- The salutatorian and valedictorian must have maintained at least 95% daily attendance during the senior year, excluding excused absences and religious holidays.
- The salutatorian and valedictorian must have modeled exemplary behavior, character, citizenship, and community service.
- Foreign exchange students may not be considered.

## POLICIES AND PROCEDURES

### ACADEMIC REQUIREMENTS FOR PARTICIPATION IN ATHLETICS AND ACTIVITIES

The Oregon Schools Activities Association (OSAA) requires each student to have passed at least 4 classes during his/her previous trimester and be enrolled in, and passing, at least 4 classes during his/her current trimester. Student athletes must be on track to graduate at all times.

Gervais High School eligibility includes the OSAA requirements **AND each** student athlete must be passing all classes he/she is currently enrolled in – at all times. Each student athlete will be subject to a grade check every three weeks of the school year. Grade checks are generally completed on Fridays or the last day of the week. The result of the grade check will take effect on the following Monday or first day of the week.

1 <sup>st</sup> Grade Check	F Grade	Probation 2 weeks (can compete, can practice)
2 <sup>nd</sup> Grade Check	F Grade	Ineligibility 2 weeks (cannot compete, can practice)
3 <sup>rd</sup> Grade Check	F Grade	Remove from team

### CLASS CHANGE OR DROP POLICY

To request a schedule change, make an appointment with our counselor and fill out the proper paperwork. **Once the school year has begun**, but within the first two days of classes, any schedule change will require teacher, parent and administrator approval. Dropping a class during any trimester, even while maintaining a passing grade (A, B, C or D), will probably result in a loss of credit. Dropping a class after four weeks of any trimester with an “F” grade will result in receiving an “F” for the class on the transcript and no credit earned.

### COLLEGE CREDIT

Many upper level GHS courses may earn a student high school **and** college credit at the same time (dual credit). For students considering college look in the course descriptions for courses that may earn college credit. We currently have partnerships with several universities. There may be a small fee.

### COLLEGE AND CAREER INFORMATION

The Career Information System (CIS) is available online and is utilized in our XCEL and Senior Survey classes. This computer software provides direction for students on personal career options, college choices and the labor market, while generating lists of occupations compatible with a student’s reported interests, abilities, and work preferences. CIS is used to complete and update each student’s Personal Education Plan (PEP).

There are other resources available as well which allow individuals to search for colleges and universities that match their educational needs. Students should make an appointment with the counselor for help finding scholarships and loans that match their educational plans, abilities and backgrounds. Scholarship opportunities are also regularly posted outside the counselor’s office.

### CREDIT RECOVERY PROGRAM

Credit recovery is generally accomplished in our after school “Academic Recovery” program or through the completion of online courses. All students are welcome to attend this after school program and receive assistance for their coursework. Juniors and seniors who have failed previous courses will be expected to attend.

### CTE COURSES

While all courses at GHS prepare students for their futures, a few courses are specially designed to prepare students for occupational fields. These are referred to as “Career and Technical Education” (CTE) courses. GHS currently offers courses in the following areas:

#### CTE Strand Area

Agricultural Science and Technology  
Industrial and Engineering Systems Technology  
Early Childhood Education  
Visual Design and Communication  
Health Sciences

#### Possible Occupations

Farming, Welding, Ranching, Animal care, Vet. Sciences  
Construction, Drafting, Robotics  
Childcare worker, Nanny, Babysitting  
Artist, Graphic designer, Videogame design  
Nurse, Doctor, Physician’s Assistant, X-Ray Technician

The sooner a student get started in these strand areas the sooner he/she can qualify for work experience opportunities. See page 7 for a sequence of classes for each CTE strand.

## GRADUATION CEREMONY PARTICIPATION

Seniors at GHS must complete all graduation requirements at least three (3) days **prior** to commencement in order to participate in the commencement ceremony.

Seniors earning credits outside of GHS must be enrolled in an approved institution or online program that grants high school or college credit. Verification of completion of any credits from any institution, including online courses, must be confirmed by the counselor at least three (3) days prior to graduation.

A diploma will not be issued and participation in commencement will not be allowed unless these timelines are met.

Students graduating early may participate in commencement as long as they have notified the GHS counselor of their intent to participate when they complete their last course.

## INCOMPLETES

An incomplete grade (INC) must be made up within two weeks after the end of each trimester or the 'INC' grade will automatically default to an "F". Some exceptions apply after 3<sup>rd</sup> trimester.

## INTER-DISTRICT TRANSFER STUDENTS

Students residing outside the Gervais School District must file an inter-district transfer request with their resident district first and then seek approval from the Gervais School District superintendent. If the transfer request is granted students must maintain at least a 2.0 GPA and abide by the attendance and discipline policies of GHS. Failure to comply may result in a revocation of the transfer.

## LATE ARRIVAL AND EARLY RELEASE

Students in the 11<sup>th</sup> and 12<sup>th</sup> grade may apply for late arrival or early release through the counselor if they have their own transportation. The number of late arrival or early release periods is not to exceed one per trimester. Administrator, counselor and parent/guardian approval is required. Students gaining this approval may not be in the school building or on school property during unscheduled time. Approval will be revoked upon violation. (See the Late Arrival/Early Release approval form, available at the counseling office, for more information). Students wanting two early release periods in the same trimester must meet additional requirements.

## NUMBER OF CLASSES

Freshmen, sophomores and juniors are required to carry a full program of study – five classes each day, each trimester. Seniors are required to attend at least four periods each day. Seniors must be on track to graduate and must have made arrangements through the GHS counselor or GHS administration to take fewer than five classes. (See 'Late Arrival and Early Release' guidance below) All senior candidates for valedictorian and salutatorian must be enrolled in at least four classes each trimester.

## REPEATING COURSES

A few courses, like Construction II, may be repeated for additional credit. Most courses may not be repeated for additional credit. The requirements for each course are noted in this curriculum guide. Courses may **not** be repeated to improve the original grade. **Students who have failed a course will generally not be allowed to enroll in the same course face-to-face.** Course credit may be made up through completing an online course during Academic Recovery after school or at home.

## SPECIAL EDUCATION

Students qualifying for special education services are placed on an Individual Educational Plan (IEP) or a 504 plan. Plans include specific, appropriate modifications, and/or accommodations that are implemented to assist students in achieving educational growth. Some students may be assigned to the Functional Learning Center (FLC), which offers more individual assistance and support for academic success.

## STUDENT RECOGNITION PROGRAMS

We want to "catch students doing great things." Gervais High School recognizes students in several ways including academic achievement, as well as exemplary character, citizenship, and attendance. Students will be acknowledged through Good News postcards, ticket drawings and celebration events.

## TEACHER ASSISTANTS

Juniors and seniors may request to serve as a teacher assistant (TA) for one period per trimester. A “TA Request” form is available in the counselling office. Students must obtain approval from the teacher first and then the counselor. TA candidates must be on track to graduate, have excellent attendance and no history of behavioral referrals. TA candidates wanting to help at GMS or GES must meet additional requirements.

## TRANSFER STUDENTS

Previous credits earned by transfer students are accepted from institutions recognized by the state of Oregon as approved high school programs. Once enrolled at Gervais High School students are expected to meet the graduation requirements of Gervais High School.

# PLANNING YOUR SCHEDULE

The following information has been provided to encourage you to plan four years of classes

<u>Math</u>	<u>Availability</u>	<u>College Credit</u>
9 <sup>th</sup> - Algebra I	Every Year	
10 <sup>th</sup> - Geometry	Every Year	
11 <sup>th</sup> - Algebra II*	Every Year	Possible
11 <sup>th</sup> /12 <sup>th</sup> - Financial Algebra	Every Year	
Pre-Calculus	Offered when possible	Possible
Calculus	Offered when possible	Possible
Probability & Statistics	Offered when possible	

  

<u>Language Arts</u>	<u>Availability</u>	<u>College Credit</u>
9 <sup>th</sup> - English 9	Every Year	
10 <sup>th</sup> - English 10	Every Year	
- Honors English 10	Offered when possible	
- English Composition	Every Year	
11 <sup>th</sup> /12 <sup>th</sup> - American Literature	Every Year	
- British Literature	Every Year	
- Honors Literature (English 104)	Offered when possible	Possible
- Honors Writing (English 121)	Offered when possible	Possible

  

<u>Science</u>	<u>Availability</u>	<u>College Credit</u>
9 <sup>th</sup> - Biology	Every Year	
10 <sup>th</sup> - Introduction to Physical Science (IPS)*	Every Year	
- Forensics	Every Year	
- Environmental Science	Every Year	
11 <sup>th</sup> /12 <sup>th</sup> - Chemistry	Every Other Year	Possible
- Physics	Every Other Year	Possible
- Advanced Biology	Every Other Year	Possible
- Anatomy & Physiology	Every Other Year	
- Biotechnology	Every Other Year	
- Medical Terminology	Every Other Year	
- Microbiology	Offered when possible	
- Immunology	Offered when possible	

\* 9<sup>th</sup> grade students passing the state Science test are invited to skip IPS in order to take upper level courses in the 10<sup>th</sup> grade

### **Social Studies**

9<sup>th</sup> - World Geography  
10<sup>th</sup> - World History  
11<sup>th</sup> - U.S. History  
    Honors U.S. History  
12<sup>th</sup> - Government  
12<sup>th</sup> - Senior Survey

### **Availability**

Every Year  
Every Year  
Every Year  
Offered when possible  
Every Year  
Every Year

### **College Credit**

## **Career and Technical Education (CTE) Course Sequences**

What do you want to do after high school? GHS currently offers classes in five career oriented areas. Many of these strands will offer certificates of completion. Consider which area you like the best and take those entry level courses early in your high school career so that you can move into the advanced courses sooner.

### **Agricultural Science**

Entry Level	Intro to Agricultural Sciences A/B/C
Advanced Courses	Intro to Welding A/B, Intro to Horticulture A/B, Animal Science, Veterinary Science, Food Science, Intro to Equine Science, Intro to Forestry

### **Construction/Technology**

Entry Level	Woods I A/B
Advanced Courses	Woods II A/B, Robotics A/B, Construction I A/B, Construction II A/B, Drafting

### **Health Occupations**

Entry Level	Home Health Care ( <b>Required of 9<sup>th</sup> grade students</b> )
Advanced Courses	Wellness Occupations, Medical Skills, Medical Terminology, Anatomy & Physiology, Advanced Biology, Biotechnology, Health Science Workplace Experiences

### **Early Childhood Education**

Entry Level	Intro to Child Development, Prenatal, Infant and Toddler Development
Advanced Courses	Preschool Practicum, Infant/Toddler Practicum, Working as an Early Childhood Teacher's Assistant, Family Relationships, Intro to Working with Infants and Toddlers

### **Graphic and Visual Arts**

Entry Level	Color Theory, Art 2D
Advanced Courses	Photography I, Photography II, Graphic Design I, Graphic Design II, Print Design and Production, Visual Arts Workplace Experience



# Course Descriptions

## **Agricultural Science and Technology**

Supervised cooperative work experience in agriculture, and supervised laboratory experience will be an integral part of each course. These courses build public speaking skills and leadership through participation in the FFA organization.

### **Introduction to Agricultural Science A (0.5) and B (0.5) and C (0.5)**

**College Credit possible**

This is a basic course designed to introduce freshmen and sophomore students in the agriculture program to global agricultural history and socio/economic importance. Instructional units include: agriculture animals, farm crops, agriculture careers, leadership, food science, marketing, natural resources, projects and tractor driving. Units of instruction will be in the classroom, land lab, and shop settings.

### **Introduction to Welding A (0.5) and B (0.5)**

Students will study metals in several industrial job fields. In welding, students will learn to gas weld and arc weld in the basic positions, cut with a cutting torch, braze welding, MIG welding, TIG welding, out-of-position weld in Mig and Arc and learn how to operate a CNC plasma table system. Students work at their own pace and have the opportunity to take home completed projects.

### **Intro to Horticulture A (0.5) and B (0.5)**

**College Credit possible**

An introductory course introduces students to hands on skills used in commercial horticultural businesses. The course will include the following topics: basic plant parts and how to grow whole plants from those parts; the function of cells, and how plants grow from seed. Soils and their influence on plant life are explored. Weeds, bugs and plant disease and how to control them are also covered. Plant scientific and common name identification plus growth habits and basic propagation are covered. Plants and their relationship to the environment are also covered in this course. The second half of the course focuses upon seed propagation, cuttings, grafting, budding, division, layering and tissue culture. Students are responsible for the greenhouse and marketing/selling the plants grown. Assisting with the plant sale for one weekend is required. Competencies completed in this class apply to College Credit Now horticultural credit at Linn-Benton Community College.

### **Introduction to Foods (0.5)**

Students will learn about food safety and processing. Food science is the study concerned with all technical aspects of food, beginning with harvesting and ending with its cooking and consumption. Students will learn about food quality and safety, nutrition and research, food processing, and current trends in the food industry. A chance to obtain a food handler's card will be available

### **Introduction to Forestry (0.5)**

An introduction to forest ecology concepts, site factors, and forests of North America. Emphasis is placed on the silvics of tree species and the impact of soil, climate, and topography on forest vegetation. Forest site-community relationships of selected major North American forest ecosystems will be studied.

### **Animal Science (0.5)**

**College Credit possible**

A course that introduces students to Commercial Animal Science. The course will include the following topics: Animals and the environment, animal identification and selection, animal health, medication and control, domestic animal reproduction and nutrition, and domestic animals as primary and secondary money makers. Computer applications include Use and programming of word processors, spreadsheets and PowerPoint. PowerPoint and Internet access are tied together for animal research projects. Computer simulations are also used to demonstrate management decision results. Animals used for laboratory projects are large animals as well as poultry. This course is also eligible for College Credit Now Animal Science college credit at Linn Benton Community College. This course meets requirements for participation in FFA activities.

### **Introduction to Veterinary Science (0.5)**

**NOT OFFERED IN 2019-20**

The purpose of this course is to provide students with an introduction to the basic principles of veterinary science and medicine. This requires students to understand the biology of both large and small breeds of animals, as well as specifics related to the area of veterinary medicine. Topics to be covered include basic first aid, medical terminology, professional and ethical standards of veterinary medicine, handling and restraint, animal anatomy, parasitology, diseases and treatments, posology, basic clinical exam techniques for large and small animals.

**Prerequisite: Instructor approval and successful completion of Anatomy and Physiology preferred.**

### **Introduction to Equine Science (0.5)**

**NOT OFFERED IN 2019-20**

**College Credit possible**

Students will learn basic concepts and terms used in the horse world. Units of instruction will include the benefits and influences of horses on our society, the history of horses, breed and age identification, anatomy, colors and markings of horses. Linn Benton College credit offered.



# Arts - Fine and Visual

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## Color Theory (0.5)

This class is an introduction to the world of commercial art and design. This class will have a dual emphasis on professional and commercial projects, while also developing basic art skills and conceptual understanding. The class will explore a variety of methods and techniques related to commercial art including: illustration, printmaking, graphic design and fine art focusing on color theory. This class is an introduction to the world of commercial art and design.

## Art 2D (0.5)

This class will have a dual emphasis on professional and commercial projects, while also developing basic art skills and conceptual understanding. The class will explore a variety of methods and techniques related to commercial art including: illustration, printmaking, graphic design and fine art focusing on the elements of art and principles of design.

## Photography I (0.5)

Photography is an introductory course where students learn concepts and techniques that Photographers use for a career in visual communications. Emphasis is on competent SLR camera handling covering exposure control, digital management, editing and presentation. Students learn how to apply the elements and principles to photography, focusing on photographic composition techniques. Different photography techniques are explored as well as image manipulation with computer software. Students learn to take, edit, and discuss their images and are introduced to the design software Adobe Photoshop and Lightroom.

## Photography II (0.5)

Photography II builds on the concepts and techniques that students learned in Photography I. Focus will be on learning different photographic themes such as portrait, event and product photography. Introduces lighting and advanced photo manipulation techniques using Adobe Photoshop and Light room. Includes the role of the photographers in the communications industry.

**Prerequisite: Photography I**

## Graphic Design I (0.5)

Graphic Design is an introductory course where students learn concepts and techniques that Designers use for a career in visual communications, exploring the historical and cultural underpinnings of graphic design. Students learn how to apply the Elements and Principles to the process of creating solutions to graphic design challenges with an emphasis on Icons and Symbols. Students will learn how to work with Adobe Illustrator.

**Prerequisites: Color Theory and 2D Design**

## Graphic Design II (0.5)

Graphic Design II is a continuation from Graphic Design I, building on the foundations learned with an emphasis on logo design and branding. Students will create digital images used for screenprinting, web publication and print. Programs used are Adobe Illustrator.

**Prerequisite: Graphic Design I.**

## Print Design and Production (0.5)

**NOT OFFERED IN 2019-20**

Print Design and Production is an independent study course focusing on skills and techniques in graphic design and production. Instruction will be included in the areas of illustration, commercial design, typography, and production techniques including screen printing. School community printing projects will be utilized as one source for projects and students will be prepared for workplace experience.

**Prerequisite: Graphic Design II and Photography II.**

## Visual Arts Workplace Experience (0.5)

**NOT OFFERED IN 2019-20**

Visual Arts- Workplace Experience courses provide students with work experience in a field related to the visual arts. Goals are typically set cooperatively by the student, teacher, and employer (students are not necessarily paid). This course may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace. **Prerequisite: Print Design and Production**

# Arts – Performing

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## Theater (0.5)

This course offers the opportunity for students grades 9-12 to explore the world of theater. Multiple skills levels within a class allow for everything from the basics of stage theater production and theater history, to script analysis and character building. Students in this course are required to complete multiple performance projects, some individually, and some in groups. Students in Theater will work on improvisational theatre, movement and voice, storytelling, monologues, and scripted scenes or one-acts. Advanced students have the option to direct their peers. In addition, **all students enrolled in Theater will experience at least one live performance by a professional theater company during their time in the course.** Extra credit opportunities are also given periodically for performing or volunteering at events. No prerequisites.

# Business

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## Office Assistant (0.5)

Office assistants gain experience in filing, duplicating, record keeping, telephone etiquette, and related general office tasks in a clerical office setting. This course helps to prepare students for entry positions in business occupations by emphasizing the importance of desirable personality characteristics, the ability to work with supervision, office confidentiality, punctuality, cooperativeness, and an attention to detail. **Prerequisite: Office approval, Grade 11 or 12**

## Peer Tutor Training (0.5)

### INDEPENDENT STUDY

This is an independent study training course that will enable students to provide assistance to other high school students through the use of tutoring techniques that foster active learning and student independence. Topics include AVID procedures, productive tutoring techniques, supporting the whole learner, learning styles, and dealing with learning differences. Students must complete all tutor training assignments including a minimum of 15 hours of verified tutoring to receive credit.

**Prerequisite: 3.0 GPA or higher, Teacher recommendation**

## Peer Tutor Practicum (0.5)

A peer tutor works with the classroom teacher. The tutor will meet with small groups of students or individuals as assigned by the teacher. Keeps track appointments with specific students and total hours tutored. Able to work with minimal adult supervision.

**Prerequisite: 3.0 GPA or higher, Teacher recommendation**

## Introduction to Computers (0.5)

**NOT OFFERED IN 2019-20**

This course introduces basic microcomputer hardware and software systems. This course covers operating system concepts and beginning commands, word processing, database applications, spreadsheet, power point, and introduction to the internet. **Grade 9**

## Journalism A (0.5) and B (0.5) and C (0.5)

**NOT OFFERED IN 2019-20**

Students will develop and expand their writing and questioning skills, learning teamwork, cooperation, and responsibility along the way. The class will produce the school newspaper including planning, writing, taking photos, designing pages and using desktop publishing. Professional standards of good journalism are emphasized. This course may be repeated for credit.

## Yearbook A (0.5) and B (0.5) and C (0.5)

**NOT OFFERED IN 2019-20**

As a member of the yearbook staff, students are involved in budgeting, design, advertising, basic photography, and computerized layouts. In addition, students will learn what it takes to put a yearbook together. This is the students' opportunity to make a difference and design their yearbook

# Construction/Technology

## Woods I A (0.5) and B (0.5)

Students in this beginning woodworking class will learn basic shop and tool safety. Safety tests will be given and passed by 90%, so that all tools can be safely used. The student will use reading and math skills to work from basic project plans working toward assembly of projects. Other skills incorporated into the class are power tools safety, choosing appropriate projects, and completing projects using the planning stage, cost estimation, and procedure for the new project. The student will complete this project based on the specifications researched by the student and monitored by the instructor. This course is required for the technical skills assessment for program completion. **No Prerequisite**

## Woods II A (0.5) and B (0.5)

This course is a continuation of Woodworking I, and the students will work on individual projects of their choosing. The instructor will take into consideration the student's skill level, size of the project, and the ability to finish the project in the time allowed. Students will be encouraged to challenge themselves with more advanced projects taking part in the planning stage cost estimation and design of the project by implementing drafting elements using CAD software. This course is required for the technical skills assessment for program completion.

**Prerequisite: Woodworking I A/B**

## Construction I A (0.5) and B (0.5)

Students will review general shop safety, and identification and use of hand and power tools used in basic wood working and construction. Tools of emphasis include table saw, circular saw, band saw, jig saw, drills, sanders, nail guns, and basic hand tools. Students will be introduced to the different vocational areas involved within the construction industry. Students will participate in advanced wood working projects including framing, siding, and other construction techniques, applying the safe use of tools provided. Students will develop knowledge of residential and commercial contracting in a variety of categories, including framing, tile, drywall, electrical, exterior finishing, and paint. Students will research and analyze data to evaluate tool attributes and work in small groups to build small sellable construction projects such as garden sheds.

**Prerequisite: Woodworking I A/B & Woodworking II A/B**

## Construction II A (0.5) and B (0.5)

**“B” is combined with APR 101 (see below)**

Students will learn to read and build from construction plans. This course will include materials estimation, calculation of board feet and square feet. Instruction in the proper use of a variety of tools used in construction applications will be emphasized, including nail guns, skill saws, table saws, panel saws and compound slide miter saws. Students will be introduced to building codes and OSHA regulations. Correct tool identification and familiarity with construction materials will be stressed. Wall, roof and floor framing will be learned, as well as door and window installation and putting up siding. Students will also learn to construct stairs and install exterior trim. Students may also use this time for mentorship and job shadow opportunities within industry.

**Prerequisite: Construction I A/B**

## Computer-Aided Drafting (CAD 130) (0.5)

**College credit possible**

This is an introduction to Computer Aided Drafting or CAD. CAD130 is a College Credit Now (CCN) course offered through Chemeketa Community College. Students are able to achieve three transferable credits with the successful completion of the course. Students will design various 2D orthographic drawings to industry standards using AutoCAD software.

**No Prerequisites**

## Trade Skills Fundamentals (APR 101) (0.5)

**(This course is combined with Contr. II B)**

**College credit possible**

Introduces the apprenticeship industry and the requirements necessary to enter an apprenticeship program. APR 101 is a College Credit Now (CCN) course offered through Chemeketa Community College. Includes employment and industry opportunities, and base construction and maintenance skills used in various crafts and examines concepts in safety. Covers use of trade vocabulary, math, hand and power tools, blueprint reading, basic rigging, and basic principles of resume writing. Students are able to achieve three transferable credits, an OSHA 10 certificate and a pre-apprenticeship course completion certificate.

**Prerequisites: Prior completion of 2 full credits (4 classes) within the Construction program of study.**

## Robotics A (0.5) and B (0.5)

**NOT OFFERED AS A CLASS IN 2019-20**

Using robots we will cover the fundamentals of problem solving, program design and programming using a high-level language. A robot is an embedded system of software and hardware. Programming and building robots applies science, technology, engineering and math (STEM) concepts. This course introduces the fundamental concepts of programming and robotics. Students will develop skills in mechanical design (CAD), and construction as they work in teams to build simple and complex robotic devices. Students will use these skills to solve problems presented within skills challenges. Ultimately students will get the chance to perform tasks within a competition platform against other teams within organized vex competitions with other schools around the region.

**No Prerequisite. Robotics may be a club activity in 2019-20. Contact Mr. McCargar if interested.**

# Early Childhood Education

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## **Intro to Child Development (0.5)** (Formerly Child Development A)

**College credit possible**

This introduction to Child Development provides a basic introduction to the nature of human growth and development as it occurs from conception through early childhood. Students will learn both theory and application and how it applies to motor, cognitive, social, emotional, moral, and language development in early childhood through hands-on activities. Hands-on children's activities are included in this course to help students understand the importance of play, experimentation, and seeing the world from the child's perspective. **This is a Level 1 course.**

## **Prenatal, Infant and Toddler Development (0.5)** (Formerly Child Development B)

**College credit possible**

This course is focused on prenatal care, infants, and toddler development. Emphasis will be on students using a computerized baby simulator to learn how to soothe an infant, feeding, bathing, diapering, and clothing an infant through the Reality Works Curriculum. Students will also learn the stages of pregnancy, good prenatal nutrition, and brain development. Opportunities to create activities that stimulate infant and toddler development for either the parent or caregiver. Child Care Lab one day a week.

**This is a Level 1 course.**

## **Intro to Working with Infants and Toddlers (0.5)**

This course is focused on what skills the caregiver needs in order to take care of infants and toddlers in a childcare facility. Emphasis will be on safety, first aid, sanitation, and infant health as a continuation of the Reality Works Curriculum as well as hands-on activities. Other topics will include Erikson's stages of psychosocial development, nurturing and separation anxiety. Students will work one-on-one or in small groups with infants and toddlers and assist the teacher in the day care center two days a week. Capstone project will be to conduct a case study assessing growth on child development. **This is a Level 1 course.**

## **Infant and Toddler Practicum (0.5)**

Provides experience working with infants and toddlers with a professional teacher in which students will observe and practice high-quality care. Students will develop research skills investigating high quality child care for infants and toddlers. In addition, based on the requirements for the CDA National Credential students will understand how to obtain the credential using the four functional areas of study: creative, cognitive, physical, and communication. Work in the daycare center four days a week.

**Prerequisite: Successful completion of any Level 1 course.**

## **Preschool Practicum (0.5)**

Provides experience working with young children in a laboratory preschool setting. Assists teachers with various activities in a preschool program. Includes some curriculum planning for the young child one day a week using "The Creative Curriculum." In addition, students will begin the process for creating a portfolio to use for prospective interviews or conduct research on the NAEYC accreditation process. Works in one of the preschool classrooms four days a week.

**Prerequisite: Successful completion of any Level 1 course.**

## **Intro to Preschool Development (0.5)**

**College Credit Possible**

Students explore the significant role and impact of play on the development of preschool children. Students will actively participate in discussions and activities related to major theorists, current research on play, the developmental stages of play, cultural influences, and other topics related to play. Discussions on behavior issues and guidance goals that support the preschool child. Students will work one-on-one or in small groups with preschoolers and assist the teacher in the day care center one day a week. Capstone project will be to conduct a case study on child development.

**Prerequisite: Successful completion of any Level 1 course.**

## **Working as a Teacher's Assistant in ECE (0.5)**

**NOT OFFERED IN 2019- 20**

**College credit possible**

For those who have an interest in working with young children as a career. Introduces the student to work in an ECE setting as a Teacher Aide 1 as defined by the Oregon Child Care Division including the roles and responsibilities. Includes observing young children and their interactions. Involves hands-on experience with a wide variety of activities including circle time, literacy, and group management. Emphasizes how routines, schedules, and the physical environment supports guidance. Students will be required to create an Early Childhood Pathway, practice mock interviews, create a philosophy, resume and cover letter. Students assist two days a week in one of Early Learning Center Labs.

**Prerequisite: Successful completion of any Level 1 course.**

## **Family Relationships (0.5)**

**NOT OFFERED IN 2019-20**

Using real life parent-child interactions scenarios this course will focus on building effective communication and trust, learn how to build positive relationships and interact and stimulate children's healthy development using theory. Typical problems and solutions are illustrated in a variety of family types and parenting styles. Includes parenting values, child abuse and neglect, nature vs. nurture, and guidance and discipline. Students will explore the importance of family involvement in their child's school and the strategies that foster the functional family structure.

# English Language Development

## **ELD: Academic Language Class (0.5) and B (0.5) and C (0.5)**

This class will be focused on academic language, including both spoken and written forms. The students will analyze literature and informational text. Students will be graded on written and spoken responses to readings in the class. Grammar will also be studied and will be tested with quizzes and tests. A passing score on the ELPA21 test is required to be exited from ELD classes.

## **ELD 1 and 2 (0.5) and B (0.5) and C (0.5)**

Students will read, write, listen and speak using different sources. Students will be required to work with reading and listening, as well as being able to write about or speak about a topic. A passing score on the ELPA21 test is required to be exited from ELD classes.

# Foreign Language

As the world grows smaller due to instant communication it is quite an asset to display a deeper understanding of another culture and be able to speak its language! Many universities require successful completion of two years of a foreign language.

## **Spanish I A (0.5) and B (0.5)**

**College credit possible**

¡Empezamos juntos! Spanish I covers several units of study. Each unit of study focuses on thematic vocabulary, comprehension, self-expression and grammatical accuracy. Students enrolled in this class will study introductory topics such as greetings, time, weather, geography, leisure activities, school, family, and sports. These units present simple grammatical structures including questions, sentences, description and introductory verb form. **Required for freshman.**

## **Spanish II A (0.5) and B (0.5)**

**College credit possible**

¡Ven a aprender con nosotros! In Spanish II the class move into past tense verbs and more advanced sentence structures. Students cover eight units that have topics such as health, responsibilities at home and school, leisure activities, cultures and body language. In class students do skits or videos, play vocabulary games, and work together to gain better Spanish skills.

## **Spanish III A (0.5) and B (0.5)**

**College credit possible**

¡Aprendemos de las Americas! In Spanish III students are presented all of the Spanish verb forms and tenses. They begin reading and writing more advanced material. A major focus in Spanish III is speaking and vocabulary expansion. Included in the curriculum are small glimpses of culture and history from many Spanish-speaking countries.

**Prerequisite: Spanish II**

## **Spanish IV A (0.5) and B (0.5)**

**College credit possible**

¡Ya podemos leer y escribir en español! In this course students study the most advanced grammar structures and verb tenses. At this level students read Short stories, newspapers, magazines in Spanish. The class learns about the most popular authors and artists in Spanish-speaking history as well as in the present day.

**Prerequisite: Spanish III**

## **Native Speakers Spanish I A (0.5) and B (0.5)**

**College credit possible**

These courses support, reinforce and expand students' knowledge of their own tongue. Because students understand at least the rudiments and structure of the language and have a working vocabulary, Native Speakers' Spanish moves faster than a regular Spanish course. There is an emphasis on literary development using a study of literature and composition. There are also cultural and historical components.

## **Native Speakers Spanish II A (0.5) and B (0.5)**

**College credit possible**

These courses support, reinforce and expand students' knowledge of their own tongue. Because students understand at least the rudiments and structure of the language and have a working vocabulary, Native Speakers' Spanish moves faster than a regular Spanish course. There is an emphasis on literary development using a study of literature and composition. There are also cultural and historical components.

# Health Education

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## Home Health Care A (0.5) and B (0.5)

In this course students will learn how to holistically care for themselves and other individuals within a home setting. Course content relates health care practices and procedures to the home environment, and typically includes patient care, comfort, and safety; basic anatomy and physiology; prevention of disease and infection; nutrition and meal preparation; human relations; CPR; and many more areas of health and wellness. **Required for 9<sup>th</sup> Grade**

## Wellness Occupations (0.5)

Exploration of Healthcare Occupations that will expose students to the variety of opportunities available within the healthcare industry. Students could be exposed to careers in nursing, therapy, dental care, administrative services, lab technology, and many more. This exposure can come in the form of guest speakers from the healthcare field, and discussions/projects related to the profession. Students will also be eligible to attend field trips to colleges and professional-level schools, and other healthcare facilities.

**Prerequisite: Home Health Care**

## Health Sciences: Workplace Experience (0.5) [This course is combined with Wellness Occupations]

Health Sciences—Workplace Experience courses provide students with work experience in fields involving the health sciences. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace.

**Prerequisites: Home Health Care**

## Medical Skills (0.5)

Students will learn skills that are commonly used in the healthcare field, such as taking vital signs, proper cleaning and washing techniques, resume writing, critical thinking, Basic Life Support Training, and First Aid Training. Since majority of healthcare professions require a higher level of education, students will also be taught skills that will help them apply to and succeed in college.

**Prerequisite: Wellness Occupations and Medical Terminology**

**Other courses to build into a Health Occupations certification are listed in the Science Department section:  
Anatomy & Physiology, Medical Terminology, and Advanced Biology.  
Psychology is listed in the Social Studies Department section**

# Language Arts

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## English 9 A (0.5) and B (0.5)

This class develops students' skills in reading, writing, listening and speaking. English 9 is a required class taken by all freshmen.

## English 10 A (0.5) and B (0.5)

This class extends students' skills in reading, writing, listening and speaking. English 10 is a required class taken by all sophomores.

## English Composition (0.5)

English Composition is a one-trimester required course aligned with the Common Core State Standards: English Language Arts: Grades 9 - 10 Writing. Emphasis will be placed on academic reading strategies, evidence-based writing, and basic research skills. Students will review writing conventions and formal grammar, practice responding to reading and writing assessment prompts, and produce a research report.

**American Literature A (0.5) and B (0.5)** Students study American literature by historical periods with emphasis on the relationships among philosophy, historical events, and the literature produced. Written work focuses on strategies for answering the essay question, and producing a literary analysis paper. **11<sup>th</sup> or 12<sup>th</sup> grade.**

## **British Literature A (0.5) and B (0.5)**

Students study British literature by historical periods with emphasis on the relationships among philosophy, historical events and the literature produced. Written work focuses on strategies for answering the essay question, and producing a literary analysis paper. **11<sup>th</sup> or 12<sup>th</sup> grade.**



### **Language Arts Essential Skills (0.5 elective credit)**

In order to graduate all students must prove their mastery of advanced math skills. This can be done by earning a superior score on various national tests (SBAC, PSAT, SAT, ACT) or through the completion of work samples. Students not achieving a superior score as a junior will be placed in one or more essential skills classes in order to complete the work samples required for graduation.

### **Honors Level English Classes\***

Placement in Honors classes will be reviewed by the English Department on an annual basis. Honors students must:

- read at, or above, grade level
- work independently, completing reading and other assignments outside of class
- have received teacher approval
- have earned an “A” or “B” during the two previous semesters of English

Honors students will study the same core texts and have opportunities to gain proficiency in the same Common Core State Standards as students enrolled in non-Honors classes, but will benefit from extended learning opportunities for

- deeper reading and critical analysis of literature.
- extended/additional reading selections at a more rigorous level.
- critical thinking and writing applications designed to prepare for the demands of college writing.

### **English 104\***

Features critical analysis and appreciation of fiction through the reading of narratives originally written in English as well as works in translation. Employs a selection of genre, stylistic, or thematic approaches to content to introduce the short story, the novel, novella, and basic literary terminology and concepts. Also introduces literary criticism and the conventions of writing literary analysis.

### **English 106\***

Teaches students to enjoy, understand, analyze, and interpret poetry. Introduces the breadth of poetry across periods, forms, and styles, both originally written in English and in translation. Introduces literary criticism and the conventions of writing literary analysis.

### **Writing 121\***

Academic Composition, focuses on college-level writing, reading, and thinking. Students will use the conventions and skills of college-level writing, including research and formal citations, to produce compositions including essays and at least one other genre, for a variety of purposes and audiences. The class will introduce multimodal composing strategies. Students will analyze, respond to, and make use of college-level texts. They will consider and reflect upon their own participation and the many ways and reasons compositions are created.

### **Writing 122\***

Continues the focus of WR 121 in its review of rhetorical concepts and vocabulary, in the development of reading, thinking, and writing skills, along with metacognitive competencies understood through the lens of a rhetorical vocabulary. Specifically, students will identify, evaluate, and construct chains of reasoning, a process that includes an ability to distinguish assertion from evidence, recognize and evaluate assumptions, and select sources appropriate for a rhetorical task. Students will employ a flexible, collaborative, and appropriate composing process, working in multiple genres, and utilizing at least two modalities, one of which must be writing.

### **Journalism A (0.5) and B (0.5) and C (0.5)**

**NOT OFFERED IN 2019-20**

Students will develop and expand their writing and questioning skills, learning teamwork, cooperation, and responsibility along the way. The class will produce the school newspaper including planning, writing, taking photos, designing pages and using desktop publishing. Professional standards of good journalism are emphasized. This course may be repeated for credit.

### **Yearbook A (0.5) and B (0.5) and C (0.5)**

**NOT OFFERED IN 2019-20**

As a member of the yearbook staff, students are involved in budgeting, design, advertising, basic photography, and computerized layouts. In addition, students will learn what it takes to put a yearbook together. This is the students' opportunity to make a difference and design their yearbook. This course may be repeated for credit.

## **Mathematics**

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### **Algebra I A (0.5), B (0.5) and C (0.5)**

Algebra I is designed to improve the student's ability to solve problems: to improve and extend the understanding of arithmetic, to think intelligently with arithmetic and algebraic symbols, and to develop an appreciation for the use of math in everyday affairs, including probability. There is emphasis on writing and solving equations as a problem-solving tool. Other topics include adding, subtracting, and multiplying polynomials, factoring polynomials and graphing linear equations, and introduction to quadratic equations. **9<sup>th</sup> grade**



### **Geometry A (0.5) and B (0.5)**

This course will improve the student's ability to use logical reasoning to solve problems and to write deductive arguments. The student will use these skills to discover and prove interesting facts and relationships about angles, lines, circles, and other geometric figures. The student will apply this knowledge to practical and real life situations.

**Prerequisite: Successful completion of Algebra I**

### **Accelerated Algebra (1.0) [Grade 9 Only]**

Accelerated Algebra I is for 9<sup>th</sup> grade students who demonstrated advanced mastery of Algebraic topics in 8<sup>th</sup> grade. In the span of one trimester, students build on the algebraic success they earned in 8<sup>th</sup> grade to achieve mastery in all Algebra I standards. The key content of this course involves writing, solving, and graphing linear and quadratic equations, including systems of two equations in two unknowns. The course also includes study of monomial and polynomial expressions, inequalities, exponents, functions, rational expressions, ratios, and proportion.

**Prerequisite: Teacher recommendation**

### **Accelerated Geometry (1.0) [Grade 9 Only]**

This course will dig deeper into the student's ability to use logical reasoning to solve problems and to write deductive arguments. The student will use these skills to prove and use theorems about angles, lines, circles, and other geometric figures. The student relate this knowledge to create scenarios where multiple concepts are used.

**Prerequisite: Successful completion of Accelerated Algebra**

### **Algebra II A (0.5) and B (0.5)**

**College credit possible**

This course will expand the student's algebra skills in preparation for advanced problems in business, engineering, science, and mathematics. Topics include, a review of Algebra I core topics, exponential functions, logarithmic functions, rational functions, graphing and factoring higher degree polynomials, plus irrational real and complex numbers.

**Prerequisite: Algebra I and Geometry and teacher recommendation**

### **Financial Algebra A (0.5) and B (0.5)**

Financial Algebra is a combination of algebraic and graphical approaches with practical business and personal finance applications as a motivation explore and learn high school level mathematics of algebra and functions in a financial context. This course will encourage students to be involved in applying mathematical ideas to their everyday lives.

**Prerequisite: In 12<sup>th</sup> grade or teacher approval**

### **Pre-Calculus A (0.5), B (0.5) and C (0.5)**

**College credit possible**

This course prepares the student for calculus. This course covers advanced topics of polynomials, radical and rational functions, transformations, exponential & logarithmic functions, and many area of trigonometry. The student will learn basics of applications of the various functions as they relate to practical situations from navigation, surveying, science, and other areas.

**Prerequisite: Algebra I, Algebra II and Geometry**

### **AP Calculus A (0.5), B (0.5) and C (0.5)**

The course goal is to prepare students to take the AP Calculus exam near the end of the course. Broad concepts of foundational topics including limits, continuity, slope, derivatives, and integrals, where widely applicable methods of analysis are emphasized. Technology is used regularly by students and teachers to reinforce the relationships among the multiple representations of functions and relations, to confirm written work, implement experimentation, and assist in interpreting results.

**Prerequisite: Successful completion of Pre-Calculus**

### **Math Essential Skills (0.5 elective credit)**

In order to graduate all students must prove their mastery of advanced math skills. This can be done by earning a superior score on various national tests (SBAC, PSAT, SAT, ACT) or through the completion of work samples. Students not achieving a superior score as a junior will be placed in one or more essential skills classes in order to complete the work samples required for graduation.

### **Pre-Algebra A (0.5) and B (0.5)**

**NOT OFFERED IN 2019-20**

This course will place a strong emphasis on the continued study of integers, order of operations, variables, expressions, and equations. Students will solve and graph equations and inequalities, write and solve proportions, and explore geometry, statistics, and graph concepts.

# Physical Education

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## **Strength and Conditioning (0.5)**

This course will focus on physical strength development, overall physical health, proper safety, and understanding team work. Students will also take part in cardiovascular conditioning games that will include, basic team game rules and team work concepts, geared to the students overall fitness. Students will be taught upper and lower body workouts, along with proper safety that needs to be present to perform the movement safely. Assessments will take place through daily fitness journals, research project, and group teaches. Good attendance, display of safety, and participation are keys to success in class.

# Science

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## **Biology I A (0.5) and B (0.5)**

### **Lab Science**

This is an activity-based course that focuses upon the remarkable nature of life and of living organisms. Using the premise of scientific inquiry, students will explore many topics and concepts to gain a greater understanding of the processes related to life science. This course aims to foster curiosity and a sense of personal connection to biological sciences. Our goal is to prepare students to confidently address biological challenges, meet state-level science standards and build a foundation for success in challenging college coursework in medicine and other life sciences. Term A covers the characteristics and processes of life related to cells and Term B includes a survey of the tremendous diversity of life on earth. Ecological relationships will be discussed throughout the course, as will the ethical issues surrounding our increasing ability to manipulate life.

## **Introduction to Physical Science (IPS) A (0.5) and B (0.5)**

### **Lab Science**

This course is a lab-based introduction to Astronomy, Physics, Chemistry, and Earth Science. Topics include: measurement, structure and origin of the universe, mechanics, elements and compounds, climate, plate tectonics, earthquakes, volcanoes, and environmental concerns. Key concepts and vocabulary will be stressed along with student development of lab-based skills. Current topics and career-related issues in the community will be addressed. Lab experiences will be offered whenever appropriate. If there is time, concepts relating to waves, electricity and magnetism may also be discussed.

## **Forensics (0.5)**

### **Lab Science**

This course is a lab-based introduction to forensic science and crime scene investigation. Major topics include evidence collection, analysis of prints, serology, DNA analysis and interrogation. Key concepts and vocabulary will be stressed along with student skill development. Comparisons will be made between real detective work and what is portrayed on TV. Current topics/career related issues in the community will also be addressed. Students should be able to read some technical information, and lab experiences will be offered whenever appropriate. During third quarter, students will also work on a review of key science concepts in order to prepare students for the state Science test. For each semester final, students will be expected to work together with teammates to solve crimes. **Prerequisite: In grade 11 or 12**

## **Environmental Science (0.5)**

This is a project based class where students learn about the balance of ecosystems, animals, plants, and civilization. Students complete research projects about various environmental topics including but not limited to specific ecosystems and their management, disaster and fire prevention, pollution and hazardous materials, urban sprawl, water and energy resources, and biodiversity. Students think critically about the issues facing ecosystems and human beings and learn how some people around the world are dealing with these issues. Using this knowledge, students engage in debates and form their own opinions drawing on their own experiences and new learning. Using applicable job skills, students also design solutions to some of these issues and create a practical plan to implement their new ideas. Recommended for, but not limited to, students interested in careers in the fields of forestry, firefighting, field biology, and the environment, or politics.

**Prerequisite: Biology A and B**

## **Anatomy & Physiology A (0.5) and B (0.5)**

### **Lab Science**

Anatomy and Physiology focuses on the study of body structures and functions while working to apply this knowledge to real-world situations. Primary emphasis is on human anatomy. This course covers multiple body systems in detail, including the skeletal system, muscular system, cardiovascular system, digestive and urinary systems. This course aims to help the student create a solid foundation for understanding basic human health while preparing students for further training in nursing, medicine, dentistry, physical therapy, veterinary science, zoology and other life science fields.

**Prerequisite: Grades 11 and 12, Successful completion of Biology A/B**

**Physics A (0.5) and B (0.5)****College credit possible Lab Science**

This course is designed to add to the student's knowledge of Physics by further investigating topics covered in Physical Science and building on new concepts. This course is designed to give students insight into the nature and structure of motion, force and energy, provide a background of terminology, principles, and concepts for further study in sciences, and to stimulate an interest in Physics, specifically, and in Science though in general.

**Prerequisites: Placement into Algebra II or teacher approval****Chemistry A (0.5) and B (0.5)****NOT OFFERED IN 2019-20 College credit possible Lab Science**

This challenging course is designed for the serious science student interested in learning the relationships between the properties of matter and their structure. The course will be fast paced for students interested in careers where scientific backgrounds are required. The student should be able to read and understand technical information. Frequent labs will require self-directed students who have the ability to stay on task, take accurate notes, and make accurate measurements. Basic calculators and knowledge of algebra are required.

**Prerequisites: Placement into Algebra II or teacher approval****Medical Terminology (0.5)****NOT OFFERED IN 2019-20**

This course introduces students to the language of medical professionals such as doctors, nurses, veterinarians and athletic trainers. Students will build a foundation for understanding the human anatomical systems and basic principles of health and disease processes while developing language skills for communicating effectively as a professional member of the medical community. Students will gain familiarity with the language of medicine, rules for building and analyzing medical words, and the medical terms associated with the body as a whole. Utilizing a systems approach, the student will learn to define, interpret, and pronounce medical terms related to body structure and function, disease processes, diagnosis, clinical procedures, and medical treatment. In addition to medical terms, common abbreviations will be covered.

**Prerequisite: Grades 11 and 12****Advanced Biology A (0.5) and B (0.5)****NOT OFFERED IN 2019-20****Lab Science**

This is a two-term course focused on preparing students for work in medicine, dentistry, veterinary science and other life science fields after graduation from high school, as well as for college-level biology. The course covers principles of biochemistry, cell and molecular biology, genetics, ecology and the history of life on earth. Laboratories will utilize methods of biotechnology and students will explore applications and ethical questions created by emerging biotechnologies.

**Prerequisites: Successful completion of Biology A/B. Preferred: Completion of Chemistry, IPS, or instructor permission.****Introduction to Biotechnology (0.5)****NOT OFFERED IN 2019-20****Lab Science**

From genetically modified foods to the prospect of genetically engineered human beings, the discovery of DNA's structure and the processes surrounding it have launched a dramatic revolution in technology and transformed our understanding of living organisms. Powerful and increasingly common new technologies are radically changing medicine, agriculture, and industry. This course serves as a general introduction to technologies that use biological processes to solve crimes, alter the food supply and impact the environment as well as diagnose and treat medical conditions. Students will develop familiarity with DNA and the processes related to it. This course will introduce basic techniques and applications of biotechnology while exploring cutting-edge technological advances. Students will build a foundation for understanding biotechnology; analyze current events and technological applications of biotechnology while developing a systematic approach for addressing ethical concerns created by the emerging technologies of the field. **Prerequisite: Grades 11 and 12**

**Microbiology and Immunology (0.5)****NOT OFFERED IN 2019-20****Lab Science**

Microbiology is the study of microscopic life forms. This course introduces students to the wide range of microbial life forms that surround us, such as bacteria, viruses, protozoa and various infectious agents. Emphasis is on understanding basic principles of microbial life, important diseases caused by microbes, as well as the role that microorganisms play in human and animal health and disease. Students will further develop an understanding of basic immune responses to infection, applied immunology and commercial use of microbes. Laboratory sessions will introduce aseptic technique and sterile transfer, use of microscopes and other basic laboratory equipment, procedures for culturing bacteria, and critical analysis of experimental data. Students will build a solid foundation for future work in medicine, biotechnology and other commercial fields that rely upon microbiology. **Prerequisite:**

**Grades 11 and 12****Medical Genetics (0.5)****NOT OFFERED IN 2019-20**

This course utilizes medical genetics to understand basic principles of health, wellness, and hereditary disease. Students will gain a basic understanding of human inheritance patterns and while developing the tools to critically analyze patterns of inherited diseases. The course will emphasize major medical illnesses such as cancer and birth defects while exploring emerging theories about the impact of genetics on behavioral conditions such as alcoholism and mental illness. Students will be introduced to emerging questions created by rapidly developing DNA sequencing technologies. **Prerequisite: Grades 11 and 12**

### Nutrition (0.5)

**NOT OFFERED IN 2019-20**

**Lab Science**

This is an activity-based course that focuses on how people around the world look at nutrition. Students will learn the dietary requirements for humans and look at different approaches to acquiring these needs. We will look at various food systems and look for novel ways to provide nutrition to all across the world. Students will analyze the nutritional value of various recipes and alter them to meet various needs. The scientific method will be employed to design “products” to fill particular nutritional needs. Standards addressed come from the Next Generation Science Standards as well as Common Core State Standards in reading and writing.

### Earth Science A (0.5) and B (0.5)

**NOT OFFERED IN 2019-20**

**Lab Science**

Earth Science offers insight into the environment on Earth and the environment in space. This course presents the concepts and principles essential to students’ understanding of the dynamics and history of the earth through the exploration of oceanography, geology, astronomy, and meteorology. **Prerequisite: In grade 11 or 12**

## **Social Studies**

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### World Geography (0.5)

This course provides students with an overview of world geography, including the physical environment; the political landscape; the relationship between people and the land; economic production and development; and the movement of people, goods, and ideas. **9<sup>th</sup> Grade.**

### World History A (0.5) and B (0.5)

This course provides students with an overview of the history of human society from early civilization to the contemporary period, examining political, economic, social, religious, military, scientific, and cultural developments. **10<sup>th</sup> Grade.**

### US History A (0.5) and B (0.5)

This course provides students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. The course includes an historical overview of political, military, scientific, and social developments. Course content may include a history of the North American peoples before European settlement. **11<sup>th</sup> Grade.**

### US History Honors A (0.5) and B (0.5)

This course is similar to US History, only it is taught at a college level. Students will have a more rigorous curriculum with higher level readings and critical thinking. **11<sup>th</sup> Grade.**

### Government A (0.5) and B (0.5)

This course provides an overview of the structure and functions of the U.S. government and political institutions. It also examines constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. **12<sup>th</sup> Grade. Required for graduation.**

### Senior Survey (0.5)

This is a required course for all seniors. The course involves career exploration and research, extended outside career related experience (job shadow), public speaking, economics, personal finance, and public relationships. **12<sup>th</sup> Grade. Required for graduation.**

### Psychology (0.5)

**NOT OFFERED IN 2019-20**

This course introduces students to the study of individual human behavior. Course content typically includes (but is not limited to) an overview of the field of psychology, topics in human growth and development, personality and behavior, and abnormal psychology.

# Miscellaneous

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## Advancement Via Individual Determination (AVID) A (0.5) and B (0.5) and C (0.5)

This course is designed to improve student academic performance and achievement via the development of college prep skills. Students will receive two hours per week of instruction in college entry level skills, two hours per week on tutorials, and one hour per week on motivational skills, academic survival skills, or community involvement. There will be a focus on the writing and reading skills necessary for college success. All AVID students will go on college visits, participate in community involvement projects, and hear college and career guest speakers. In upper grades students will complete college admissions and financial aid processes.

**Application Required**

## Driver Education (non-credit class)

Driver Education offers the student an opportunity to learn about the safe operation of a motor vehicle under various conditions. Students will develop safety habits. This course is an analysis of the driving task with emphasis on the mental, physical, and social requirements for safe driving, with an introduction to on-street driving experiences given to those students who have obtained a driving permit. The behind-the-wheel portion of the course is done outside of school.

This course meets for eight weeks. **Prerequisite: Students must have a valid permit prior to the beginning of the course**

**Class Fee: \$150, \$75 scholarship available**

## Leadership A (0.5) and B (0.5) and C (0.5)

This course offers the opportunity for students grades 9-12 to acquire leadership skills through project-based curricula. **This is a required course for ALL elected or selected student council (Class and ASB) officers throughout their tenure in office.** This course is the main time and place for student council to meet, plan, and implement various projects including, but not limited to: assemblies, dances, community events, fundraisers, and service projects. Non-elected students may take this course, but need **instructor approval** to do so. This course requires students enrolled to attend some functions outside of school hours. No prerequisites.

## Peer Tutor Training (0.25)

## **INDEPENDENT STUDY**

This training course will enable selected students to provide assistance to other high school students through the use of tutoring techniques that foster active learning and student independence. Topics include productive tutoring techniques, supporting the whole learner, learning styles, and dealing with learning differences. Students must complete tutor training and complete a minimum of 15 hours of verified training to receive credit. **Prerequisite: 3.0 GPA or higher, Teacher recommendation**

## Peer Tutor Elective (0.5)

A peer tutor works with a classroom teacher. The tutor will meet with small groups of students or individuals as assigned by the teacher. Each tutor is expected to keep track of appointments with specific students and total hours tutored. Successful individuals must be able to work with minimal adult supervision. This course may be repeated for credit.

## Teacher Assistant (0.5)

A teacher assistant (TA) works with a classroom teacher, completing specific responsibilities assigned by the teacher.

**Grades 11 and 12. Prerequisite: Teacher approval**

## Workplace Experience (up to 0.5 credits per trimester and up to 1.0 credits per year)

Students may earn high school credit while working at a job. Goals are typically set cooperatively by the student, and employer. To earn credit students are expected to complete a series of reflections, track hours worked and have an employer (non-relative) sign their approval. **Contact our school counselor, Mrs. Broadhurst, for more information.**