ODESSA HIGH SCHOOL

COURSE CATALOG

Updated for the 2019-2020 School Year

ENGLISH LANGUAGE ARTS

4 credits required for graduation

English 9 *(1 credit required)* **.5 credit per semester**

Students must pass both semesters to receive the 1.0 credits required for graduation. English 9 fulfills an English credit, which is a required course for graduation. We will do a variety of activities that include, reading, writing essays and narratives. We will also do various smaller, daily activities to enhance our reading and understanding, and go beyond basic comprehension to analysis of ideas and make real world connections. Students will work in large and small groups, as well and independently. Unit studies will focus on Short Fiction, Historical Research, Romeo and Juliet and To Kill a Mockingbird. In addition to in-class readings, they will be required to read a book outside of class and will write an Independent Novel Response once a week. All novels/plays/poems/short-stories/content for this class are part of the board-approved curriculum.

English 10 *(1 credit required)* **.5 credit per semester**

Students must pass both semesters to receive the 1.0 credits required for graduation. English 10 fulfills an English credit, which is a required course for graduation. English 10 exposes students to a comprehensive study of literature from classic to contemporary. Student work will be centered on critical thinking concepts, including analytical reading of literature, and frequent assignments of analytical and persuasive composition. Students will engage in class discussions, self-evaluation and collaboration. This course also emphasizes the kind of writing that will prepare a student for the different kinds of writing required in both high school and college, as well as the state standardized test. It encompasses a wide range of writing from the research paper to personal essays to analytical writing, persuasive writing and writing about literature. It also provides information and guidelines for critical reading, critical thinking, researching and other topics essential for success in writing. Units of study are *The Help*, *A Painted House,* and preparation and practice for the state standardized test. In addition to in-class readings, they will be required to read a book outside of class and will write an Independent Novel Response once a week. All novels/plays/poems/short-stories/content for this class are part of the board-approved curriculum.

English 11 *(1 credit required)* **.5 credit per semester**

Students must pass both semesters to receive the 1.0 credits required for graduation. English 11 fulfills an English credit, which is a required course for graduation. This course presents a historical survey of American literature, as well as focusing on individual perspectives and how we view the world. Areas of emphasis in writing instruction include writing essays in a variety

of rhetorical vocabulary, developing style, developing research skills, using Modern Language Association (MLA) formatting, and language and conventions. Student work will be centered on critical thinking concepts, including analytical reading of literature, and frequent assignments of analytical and essay writing. Units of study include The Perspectives Unit, *The Crucible*, *Death of a Salesman*, and a literature circle project. In addition to in-class readings, they will be required to read a book outside of class and will write an Independent Novel Response once a week. All novels/plays/poems/short-stories/content for this class are part of the board-approved curriculum.

English12 *(1credit required)* **.5 credit per semester**

Students must pass both semesters to receive the 1.0 credits required for graduation. English 12 fulfills an English credit, which is a required course for graduation. During the class, students will explore literature, writing, and speaking/listening through a variety of strategies and methods. Lecturing and note-taking are required. Students will work in groups both large and small, independently and as a whole class. We will use a variety of discussion techniques to enhance our understanding of what we are reading and to improve our writing. There will be multiple projects, essays and presentations. Students will be reading a variety of novels, short stories, and poems. Students will complete a Rogerian Argument paper that will use a multitude of outside sources. In addition to in-class readings, they will be required to read a book outside of class and will write an Independent Novel Response once a week. All novels/plays/poems/short-stories/content for this class are part of the board-approved curriculum.

MATHEMATICS

3 credits required for graduation

Algebra 1 *(1 credit required)* **.5 credit per semester**

Students must pass both semesters to receive the 1.0 credits required for graduation.

Students will learn the basic properties of numbers and develop the concepts and skills of algebraic techniques. Topics covered in this course include: solving problems; the real number system; expressions; operations; the characteristics and behaviors of functions; linear functions, equations, and inequalities; quadratic functions and equations; data and distributions; reasoning; mathematical communication; and, a basic understanding of arithmetic and geometric sequences, and exponential functions. This is a yearlong course.

Geometry *(1 credit required)* **.5 credit per semester**

Students must pass both semesters to receive the 1.0 credits required for graduation.

The student will learn the fundamentals of Euclidean geometry. Topics covered in this course include: experiment with transformations in the plane; understand congruence in terms of rigid motions; prove geometric theorems; understand similarity in terms of similarity transformations; prove theorems involving similarity; define trigonometric ratios and solve problems involving right triangles; apply trigonometry to general triangles; understand and apply theorems about circles; find arc lengths and areas of sectors of circles; translate between the geometric description and the equation for a conic section; use coordinates to prove simple geometric theorems algebraically; explain volume formulas and use them to solve problems; visualize relationships between two-dimensional and three-dimensional objects; and apply geometric concepts in modeling situations. This is a year-long course.

Algebra 2 **.5 credit per semester**

Students will combine and extend the knowledge and skills from Algebra 1 and Geometry. Topics covered in this course include: the complex number system; expressions; operations; operations on polynomials and their factors; the characteristics and behaviors of functions; systems of equations and inequalities; quadratic functions and equations; exponential and logarithmic functions and equations; additional classes of functions; trigonometric functions and identities; vector and matrix quantities; probability, data, and distributions; arithmetic and geometric sequences and series; mathematical reasoning; problem solving; and, mathematical communication. This is a year-long course.

Pre-Calculus **.5 credit per semester**

Students will learn the concepts that play a central role in calculus from algebraic, graphical, and numerical perspectives. Topics covered in this course include: the complex number system; the characteristics and behaviors of functions, equations, and inequalities; polynomial and rational functions; exponential and logarithmic functions; trigonometric functions, identities, and applications; analytical geometry; systems of equations and matrices; statistics and probability; limits and continuity; mathematical reasoning; problem solving; and, mathematical communication.

This is a year-long course. Not required for college entrance but will be very beneficial for highly competitive schools such as PLU, UW, WSU, Stanford, Gonzaga, Whitworth, and Harvard.

Calculus **.5 credit per semester**

Students will learn the concepts that play a central role in calculus from algebraic, graphical, and numerical perspectives. Topics covered in this course include: polar coordinates and complex numbers, conics, exponential and logarithmic functions, sequence and series, combinatorics and probability, statistics and data analysis and derivatives and antiderivatives. This is a year-long course.

Bridge to College Mathematics **.5 credit per semester**

Bridge to College Mathematics is a year-long course focusing on the key mathematics readiness standards from Washington State's K-12 Learning Standards for Mathematics (the Common Core State Standards, CCSS-M) as well as the eight Standards for Mathematical Practices. The course is designed to prepare students for entrance into non-calculus pathway introductory college level mathematics courses. The course addresses key learning standards for high school including Algebra I, statistics, geometry, and Algebra II standards essential for college- and career-readiness.

Course Description: The course curriculum emphasizes modeling with mathematics and the Standards for Mathematical Practice found within Washington K-12 Mathematics Learning Standards (the Common Core State Standards, CCSS-M). Topics include building and interpreting functions (linear, quadratic & exponential), writing, solving and reasoning with equations and inequalities, and summarizing, representing, and interpreting data. The course is designed to focus on building conceptual understanding, reasoning and mathematical skills and provides students engaging mathematics that builds flexible thinking and a growth mindset. For seniors who are successful in this course (B or better), the Bridge to College Mathematics course offers guaranteed placement into a college-level course when entering college directly after high school.

For placement into Math 107 (Math in Society), Math 146 (Statistics), or their equivalents:

1) Level 3 or 4 score on high school Smarter Balanced assessment plus a) B or better in Algebra 2, and b) successful completion (passing grade) of one math course in the junior or senior year
2) OR 2) B or better grade in designated Bridge to College Math class as a senior For placement into other entry-level math courses (including pre-calculus): Requires Smarter Balanced Level 3 or 4 plus B or better in a high school pre-calculus or higher course

SCIENCE

3 credits required for graduation

Integrated Science w/Laboratory: Grade 9, Honors Cr Available .5 credit per semester

Physical science studies matter and energy. Students study physical laws and chemical processes through student-driven, research-based laboratory experiences. Physical science surveys the laws of motion, properties of matter, energy, light, and electricity at the high school level. Chemical science studies and investigates the structure and properties of matter. Add a component of Engineering to most laboratories and…Integrated Science! Students earn honors credit if they earn a C (75%) or better on their 2nd Quarter Research Project Presentation AND turn in a written paper which also earns a C (75%) or better, both on their 1st attempt.

Biology w/Laboratory: Grade 10, Honors Cr Available .5 credit per semester

Biology studies life. This inquiry course will be an in depth study of the cell and its importance to all of life. Through student-driven, research-based laboratory investigations characteristics of microorganisms, invertebrates, and vertebrates and their environments will be studied. Students investigate the genetics and relationships between various organisms, and finish with a comparison of human anatomy, physiology, ecology, and behavior with other species. Students earn honors credit if they earn a C (75%) or better on their 2nd Quarter Research Project Presentation AND turn in a written paper which also earns a C (75%) or better, both on their 1st attempt.

Chemistry w/Laboratory: Grade 11-12, Honors Cr Available .5 credit per semester

Chemistry studies and investigates the structure and properties of matter. Chemical theories and concepts with quantitative problems challenge students, helping them to develop a better understanding of their physical world. Students develop experiments and learn about the nature of chemicals and reactions through these student-driven, research-based laboratory experiences. Students earn honors credit if they earn a C (75%) or better on their 2nd Quarter Research Project Presentation AND turn in a written paper which also earns a C (75%) or better, both on their 1st attempt.

Physics w/Laboratory: Grade 11-12, Honors Cr Available .5 credit per semester

Physics studies the fundamental principles and laws that govern the behavior of matter and energy in our universe. The laws are presented through student-driven, research-based laboratory investigations and thorough algebraic problem solving techniques. A large portion of physics will be engineering designs to accompany the unit concepts. Students earn honors credit if they earn a C (75%) or better on their 2nd Quarter Research Project Presentation AND turn in a written paper which also earns a C (75%) or better, both on their 1st attempt.

Advanced STEM Research Laboratory: Grade 9-12, Honors Cr Available .5 credit per semester

Advanced STEM Research Laboratory involves a year-long independent research study regarding any scientific issue complete with journal article report and presentation to both student and community in the scientific format. 9th Grade Students must contact the science instructor prior to adding this course. Students earn honors credit by completing 2 semesters and presenting their completed research via poster board to a professional in their field of scientific study for peer review.

ASR Honors Science Credit Guidelines:
Students earn honors credit in Advanced STEM Research by completing 2 semesters and presenting their completed research via poster board to a professional in their field of scientific study for peer review.

Computer Science & Programming: Grade 9-12, .5 credit per semester

**This course can count towards the following types of credits: Science, CTE, or Elective. Student must communicate with counselor about which credit this course will fulfill.*

Computer Science and Programming studies and investigates key fundamental ideas of the science of computing. Brief tutorials allow daily student-driven assignments covering a wide variety of topics such as hardware, software, or current world applications -all through the focus of computer programming with scientific concepts behind each lesson. Students will create their own programs, websites, robots, and apps using introductory coding through QBASIC, PBASIC, HTML/CSS, JAVA, and more!

Honors Science Credit Guidelines:

Current Practice: In the past and during this year, honors credit was earned for presenting outside of the classroom after earning a C (75%) or better on BOTH the presentation as well as the written paper.

New guidelines starting 2020-2021 school year: Students earn honors credit in 9th Integrated Science, 10th Biology, 11th Chemistry, and 12th Physics if they earn a C (75%) or better on their 2nd Quarter Research Project Presentation AND turn in a written paper which also earns a C (75%) or better, both on their first attempt.

SOCIAL STUDIES

3 credits required for graduation

Washington State History **Non Credit Requirement**

This course is a 1 semester course that is completed in the 8th grade. It is designed to give students an overall picture of the state of Washington. Over the course of the semester, students will cover the history of our state, the framework of our state government and the geographical features of the Pacific Northwest.

U.S. History **.5 credit per semester**

Students will learn how historical events of the past impact the world today through the political, scientific, economic, and cultural backdrop of the United States. Students will study a variety of time periods, including the nation's beginnings, the Constitution and other documents, the Civil War, the Industrial Age, World War I, the New Deal, World War II, civil rights movements, and many other areas up to, and possibly including, the present day. Students will incorporate history texts, primary documents, selected videos, and other materials to enrich their exploration of history. Through this course, students will learn to recognize the forces of history, their impact on the present, and develop a critical mind in regarding their influence on the future. This is a yearlong course.

Civics **.5 credit per semester**

Civics is a subject that touches every person's life. It teaches the value of being an active citizen in the community. It teaches the importance of taking part in politics and helping to choose the leaders of local, state, and national government. It teaches how laws shape society and how they protect individuals. It teaches how the rights granted by government come with responsibilities not to abuse those rights. The word "civics" is based on an ancient Latin word "civicus" which means "of a citizen."

Geography **.5 credit per semester**

Geography is the study of places and the relationships between people and their environments. Geographers explore both the physical properties of Earth's surface and the human societies spread across it. They also examine how human culture interacts with the natural environment and the way that locations and places can have an impact on people. Geography seeks to understand where things are found, why they are there, and how they develop and change over time.

Current World Problems **.5 credit per semester**

This course includes the study of current issues within the state of Washington, the United States, and the world. Students will study the political conditions and influences of the day, understand the relationship current events have with history and culture, research the influences and motives of societal, political, economic, and environmental trends, and evaluate their perspectives through thoughtful engagement with evidence. To accomplish this, students will read current news stories in the newspaper, research using the Internet and other technology, watch televised news broadcasts, read informational periodicals, and utilize a variety of new media. Other supplementary materials will also be used including literature and film. This is a yearlong course.

Economics: Independent Study **.5 credit per semester**

This economics course will focus on major economic concepts and theories of the U.S. and various countries around the world. Focus is placed on the problem of scarcity and supply and demand. The course requires independent study of the text book and interpretation of graphs, tables, and maps, to complete workbook lessons. It also requires viewing of videos to complete workbook assignments. Students will complete and electronic career portfolio project to

demonstrate their understanding of the decision making and its effect on their long-term personal economic outlook.

WORLD LANGUAGE

2 credits required for graduation

Spanish 1 – Grades 9-11 **.5 credit per semester**

Will provide the student with a general introduction to the Spanish language: sound system, pronunciation, functional vocabulary related to everyday life, cultural information and basic grammatical structures. Emphasis will be on the acquisition of four skills: listening, speaking, reading and writing. There are two main objectives to the course. Foremost is to give the students the ability to carry on a simple conversation. The second is to provide the students with instruction that teaches a basic understanding of Spanish culture, vocabulary, and grammatical concepts.

Spanish 2 – Grades 10-12 **.5 credit per semester**

Builds upon knowledge gained in Spanish 1.This course will also reinforce the skills learned in Spanish I: listening, speaking, reading and writing. Emphasis is on perfecting pronunciation, mastery of the basic grammatical structures, and increased communicative proficiency. Acquisition of functional vocabulary is expected. Students will be exposed to the past tenses, future, conditional and subjunctive mood. Students will be expected to apply them in their writing and speaking.

PHYSICAL EDUCATION & HEALTH

2 credits required for graduation

Physical Education **.5 credit per semester**

Students will learn a variety of different skills in many sports activities such as basketball, volleyball, football, soccer, badminton, tennis, golf, weight training, and plyometrics. The students will also learn about health and hygiene. This class is required of all freshmen.

Weight Training/Conditioning **.5 credits per semester**

Students will learn proper technique on different lifts such as cleans, dead lifts, bench, squats, and many other lifts. Weight lifting will be done three days a week. Monday, Wednesday, Friday. Plyometrics and running days will be Tuesday and Thursday. Goal is to get each student stronger and healthier as the school year progresses**.**

Health **.5 credit semester course**

Course required for graduation.

High school health integrates a variety of health concepts, skills, and behaviors to plan for personal and lifelong health goals. Students develop skills that will make them health-literate adults. These include awareness and consequences of risky behaviors, disease prevention, overall wellness, and identification of community health resources. Students are taught how to access accurate information that they can use to promote health for themselves and others. Their behaviors reflect a conceptual understanding of the issues associated with maintaining good personal health. Students demonstrate comprehensive health and wellness knowledge and skills. They use problem-solving, research, goal-setting and communication skills to protect their health and that of the community.

FINE, PERFORMING, & VISUAL ARTS

2 credits required for graduation

High School Band Grades 9-12 **.5 credit per semester**

This course is designed for high school band students. Students will complete performance tests, written assignments, formal performances (school, parades, competitions), informal performances (pep band). Students will also have the option to audition for Bi-County Honor Band as well as State Solo-Ensemble and All-State Ensembles.

High School Art **.5 credit per semester**

This 9th-12th grade visual arts course is to provide a foundation for understanding art through the use of state standards. During the semester, the focus will be to explore the elements of art and principles of design through activities that enable the art student to strengthen communication skills, develop their creativity and imagination through continuous practice and build confidence.

CAREER & TECHNICAL EDUCATION

2 credits required for graduation

Introduction to Agriculture, Food, and Natural Resources **.5 credit per semester**
CASE AFNR

**This course can count towards the following types of credits: Science, CTE, or Elective. Student must communicate with counselor about which credit this course will fulfill.*

Introduction to Agriculture, Food, and Natural Resources (AFNR) introduces students to agricultural opportunities and the pathways of study in agriculture. Science, mathematics, reading, and writing components are woven in the context of agriculture and students will use the introductory skills and knowledge developed in this course throughout the CASE curriculum. Throughout the course are activities to develop and improve employability skills of students through practical applications. Students explore career and post-secondary opportunities in each area of the course.

Students participating in the *Introduction to Agriculture, Food, and Natural Resources* course experience hands-on activities, projects, and problems. Student experiences involve the study of communication, the science of agriculture, plants, animals, natural resources, and agricultural mechanics. While surveying the opportunities available in agriculture and natural resources, students learn to solve problems, conduct research, analyze data, work in teams, and take responsibility for their work, actions, and learning. For example, students work in groups to determine the efficiency and environmental impacts of fuel sources in a practical learning exercise.

The Introduction to Agriculture, Food, and Natural Resources course serves as the introductory course within the CASE Program of Study. The course is structured to enable all students to

experience an overview of the fields of agricultural science and natural resources so that students may continue through a sequence of courses through high school. The knowledge and skills students develop will be used in future courses within the CASE program.
In addition, students will understand specific connections between their lessons and Supervised Agricultural Experience and FFA components that are important for the development of an informed agricultural education student. Students investigate, experiment, and learn about documenting a project, solving problems, and communicating their solutions to their peers and members of the professional community. Classroom and laboratory activities are supplemented through supervised agricultural experiences (SAE) and leadership programs and activities.

The Introduction to Agriculture, Food, and Natural Resources course includes:
- Agricultural Education – Agriculture, FFA, and SAE
- Communication Methods
- Science Processes
- Natural Resources
- Plants and Animals
- Agricultural Power and Technology

Greenhouse Management **.5 credit per semester**

Greenhouse Management is an applied-knowledge course designed to prepare students to manage greenhouse operations. This course covers principles of greenhouse structures, plant health and growth, growing media, greenhouse crop selection and propagation, and management techniques. Upon completion of this course, proficient students will be equipped with the technical knowledge and skills needed to prepare for further education and careers in horticulture production. Classroom and laboratory activities are supplemented through supervised agricultural experiences (SAE) and leadership programs and activities.

Horticulture **.5 credit per semester**

This is an introductory course in ornamental horticulture and greenhouse management. Students will learn fundamental skills relating to plant propagation, plant nutrition, floral arrangements and greenhouse and nursery production. This class teaches the student how to propagate and grow plants.
This course introduces the principles of plant science with an emphasis on plants and management practices for various cultivated crops. Topic areas include: plant classification, plant anatomy and physiology, soil science, climatic influences on plants, plant propagation, plant nutrition, floral arrangements, and management practices. Classes will be mostly lecture-

based in the first semester with time for discussion, collaborative learning, and small group work. Second semester we will move to the greenhouse for most class work. Classroom and laboratory activities are supplemented through supervised agricultural experiences (SAE) and leadership programs and activities.

Ag Mechanics 1 and 2 **.5 credit per semester**

This laboratory course is designed to provide students with introductory level experiences in selected major areas of agricultural mechanics technology which may include small engine maintenance and repair, metal fabrication, wood working, concrete construction, building construction, plumbing, electrical wiring, maintenance of agricultural machinery, equipment and tractors. Learning activities include information, skill development and problem solving. Classroom and laboratory activities are supplemented through supervised agricultural experiences (SAE) and leadership programs and activities.

Financial Math **.5 credit per semester**

**This course can count towards the following types of credits: CTE, Math, or Elective. Student must communicate with counselor about which credit this course will fulfill. Available only as a 3rd year math credit that aligns with the students HSBP.*

Financial Math is a course designed to help students understand the impact of individual choices on occupational goals and future earnings potential including instruction in saving, checking accounts, managing credit, financial pitfalls, budgeting, careers, taxes, insurance, and investing.

Accounting **.5 credit per semester**

Accounting is a course designed to establish the foundation for understanding business, and provides initial knowledge needed for an accounting career. This class introduces the principles and process involved in double-entry accounting systems. It covers the entire accounting function including the use of journals, ledgers, worksheets, financial statements and specialized accounting functions such as banking and payroll.

Computer Applications I, II, III, and IV **.5 credit per semester**

These courses are designed to provide students with in-depth and step-by step, sequential practice applying the most commonly used business computer software applications and skills including photo editing, graphic design, video editing, and web design. Each course is only a semester long, and can only be taken once.

Digitools **.5 credit per semester**

Digititools is an introductory class exposing student to many elements of technology. This course is intended as an introductory course toward Microsoft Office Specialist (MOS) certification. Students will learn to operate and maintain a computer efficiently. Students will learn to create and properly format business documents. Students will develop skills needed to successfully achieve employment and retain a job and also identify proper uses of the Internet and components of good digital citizenship. This is only a one semester course that can only be taken once.

Microsoft Office Specialist **.5 credit per semester**

This course provides computer program literacy, measures proficiency, and identifies opportunities for enhancement of skills. Students will learn the advanced functions of the Windows operating system, word processing, spreadsheet, database, presentation and publication software applications. *Students will have the opportunity to acquire a Microsoft Office Specialist certification credential that sets them apart from their peers in the competitive job market.*

Publishing **.5 credit per semester**

Publishing involves producing the annual and designing and publishing documents for community members. The course includes introductory digital photography and introduction to publication layout and design. This course is a project-based learning environment with an emphasis on annual publications meeting all deadlines. All work will be performed to industry standards.

Work Based Learning **.25 to .5 credit per semester**

Work-Based Learning is a learning experience that occurs at a qualified paid worksite outside the classroom in fulfillment of a student's educational or career plan through the coordination of a work based learning certified teacher. Direct instruction and supervision is provided by a qualified worksite supervisor. Students must be 16 years of age and a junior/senior status.