

# WEST SEATTLE HIGH SCHOOL

## Course Catalog 2018-2019



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## REGISTRATION INFORMATION

Students pre-register in March (incoming 9<sup>th</sup> graders register in May) for the following year. Carefully read the course descriptions noting the important information about course prerequisites. Talk with your teachers, parents and counselor about which classes you should consider taking next year. Choose classes that support your career goals, enhance your interests or teach you a new skill.

*Classes will be offered based on staff availability and the number of students who request courses. Signing up for a course is not a guarantee of enrollment.*

### IMPORTANT POLICIES

**Yearlong Scheduling:** West Seattle High School students register for the following year's classes in the spring. Both semesters' courses are selected at this time. **Students will remain with the same teacher for the full year in yearlong courses. Students should choose courses carefully as schedule changes are extremely limited.**

**Grading System:** Grades of A, B, C, and D indicate credit earned in a class. An E grade indicates course failure and results in no credit earned. If a student wishes to take a class for a Pass/No Pass grade, this must be requested by the fifth week of the semester and may be chosen for only one course per semester.

**Honors and AP classes:** Honors and AP courses are a full-year commitment. If students choose one or more of these courses, they are committing to the enrollment for the 2016-17 school year.

**AP Classes:** Taking the AP exam is an expectation when a student signs up for AP course. Currently (2015), the AP exam costs \$100 per test or \$20 for students on free and reduced lunch.

**Schedule Changes** (five day rule): Schedule changes must be completed before the end of the

5<sup>th</sup> school day of the first semester and before the end of the 5<sup>th</sup> school day of the second semester. *Classes dropped after the 10<sup>th</sup> day of the semester but before the 5<sup>th</sup> week of the semester will result in a **W** on the student's transcript. Students who are withdrawn from a class after the 5<sup>th</sup> week of the semester will earn an **E** on their transcript for that course unless the withdrawal is due to a move to another school.* Parent/guardian signature is required to process a request for withdrawal.

Incompletes are rarely given and must be completed within six school weeks of the end of the grading period or the Incomplete will become an E grade.

**Course Fees:** We believe students should be able to take courses of their choice regardless of their ability to pay required course fees. Students should see their counselor if they need fee assistance.

**TA (Teacher or Office Assistant):** *Only available to Juniors and Seniors (NO exceptions).* Students may take only one TA position per semester. Such credits may not exceed a total of 2.0 credits. Teacher Assistant positions earn .25 credit Office Assistant positions earn .50 credit.

**Athletic Eligibility:** To participate on a school sports team, students must have earned a grade point of 2.0 or higher in five subjects during the previous semester of school. Continuing eligibility will require a student athlete to earn no less than a 2.0 grade point average in five subject areas (2.5 credits) as reported on their current report card.

**NCAA Athletic Eligibility:** Students interested in participating in college athletics after high school need to be aware that specific academic courses are required for eligibility. Please see the athletic director, your counselor or go to the following websites for more detailed information: [www.ncaa.org](http://www.ncaa.org) or [www.ncaaelegibilitycenter.org](http://www.ncaaelegibilitycenter.org)

## West Seattle High School Graduation Requirements

	Class of 2021 and beyond	Class of 2017-2020	4 year college recommendations
Language Arts	4.0 credits	4.0 credits	4.0 credits
Mathematics	3.0 credits	3.0 credits	3.0+ credits
Science	2.0 credits	2.0 credits	3.0 credits(1 lab science)
Social Studies	3.0 credits	3.0 credits	3.0 credits
Fine Arts	2.0 credits	1.0 credits	1.0 credits
Health	.5 credits	.5 credits	.5 credit
Physical Education	1.5 credits	1.5 credits	1.5 credits
Career/Technical Ed	1.0 credits	1.5 credits	1.5 credits
World Language*	2.0 credits		2.0+ credits**
Electives	4.5 credits***	4.5 credits***	1.5 credits***
<b>Total Credits</b>	<b>24 credits</b>	<b>21 credits</b>	<b>21 credits</b>

\*Any Seattle school student can earn Competency Based Credit in any given language by completing a Proficiency Exam in Reading, Writing, Listening and Speaking. See your counselor for more information.

\*\*Two years of middle school language study counts as one high school credit; however, it is advisable to take another 2-3 years of language study at the high school level (these should be two consecutive years of the same language).

\*\*\*21 credits needed to graduate; 24 recommended

### Additional Requirements

- Overall cumulative and core GPA of 2.0 (core courses are: language arts, math, science and social studies)
- 60 hours of community service learning
- Washington State History (usually completed in 8th grade)
- Class of 2017 and 2018 will take the Common Core Exam (SBAC) in Math and Language Arts
- End of Course exams
  - Class of 2017 and beyond must pass the Biology EOC
- Four-year High school plan

*Students must continue to attempt the exams until they have passed in order to graduate and receive a diploma.*

## LANGUAGE ARTS

### Graduation Requirements:

4.0 credits (8 semesters) of English Language Arts  
LA 9, 10, 11, 12 required by WSHS

### **LA9: INTRODUCTION TO LITERATURE AND COMPOSITION**

9th grade – yearlong: .5 credit per semester

Average homework: 20 minutes/night

Introduction to Literature and Composition is a year-long course that concentrates on guided and critical reading of texts from different genres that reflect themes of identity and self-discovery. The focus of composition is developing clear and purposeful writing.

### **LA9H: HONORS INTRODUCTION TO LITERATURE AND COMPOSITION**

9th grade – yearlong: .5 credit per semester

Prerequisites: Students have passed the Reading and Writing MSP and have an A or B in the previous class.

Average homework: minimum of 30 minutes/night

Introduction to Literature and Composition is a year-long course that concentrates on guided and critical reading of texts from different genres that reflect themes of identity and self-discovery and where the focus of composition is developing clear and purposeful writing. Intellectual curiosity is a focus with an emphasis on critical thinking and depth of ideas.

### **LA10: WORLD LITERATURE AND COMPOSITION**

10th grade – yearlong: .5 credit per semester

Average homework: 25 minutes/night

In this course, students read international texts. The course concentrates on critically reading how the human experience is expressed in literature from around the world and refining speaking and writing skills as students prepare for the state Smarter Balanced Exam.

### **LA10H: HONORS WORLD LITERATURE AND COMPOSITION**

10th grade – yearlong: .5 credit per semester

Prerequisites: Students should have an A or B in their 9<sup>th</sup> grade Language Arts class.

Average homework: minimum of 30 minutes/night

Students read international texts and concentrate on critically reading how the human experience is expressed in literature from around the world. Intellectual curiosity is a focus with an emphasis on critical thinking and depth of ideas. While honing reading skills, students also develop writing proficiency by crafting increasingly clear and purposeful essays with an emphasis on refinement and style.

### **LA11: AMERICAN LITERATURE AND**

### **COMPOSITION**

11th grade – yearlong: .5 credit per semester

Average homework: 30 minutes/night

This course concentrates on critically reading different interpretations of the American experience and the American dream, with an emphasis on increased sophistication through reading, writing and speaking.

### **LA11AP: ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION**

11th grade – yearlong: .5 credit per semester

Prerequisites: Students have passed Reading and Writing HSPE and/or Smarter Balanced Assessment, have an A or B in their 10<sup>th</sup> grade Language Arts class, and are prepared to complete a summer reading assignment as well as take the AP test in the spring.

Average homework: minimum of 30-60 minutes/night

An AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purpose, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing.

### **LANGUAGE ARTS 9M/10M/11M**

9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup> grade – yearlong: .5 credit per semester

Prerequisite: Individualized Education Plan

This course is designed to activate student thinking and learning in regard to the interactive process of reading and writing. Using the Hampton-Brown Edge text and supplemental materials, students will engage with Essential Questions throughout the school year to expand their critical thinking skills. Specific strategies will enhance: reading strategies, vocabulary, literary analysis, fluency and phonics, oral and written expression and grammar.

### **LA12: COMPARATIVE LITERATURE AND COMPOSITION**

12th grade – yearlong: .5 credit per semester

Average homework: 30 minutes/night

This course synthesizes critical reading and writing skills from previous years, focusing on texts that cross a wide range of genres and embody a high level of thematic and technical complexity and independence. In addition, students are expected to complete a **culminating senior project**. This project is a requirement for graduation and requires students to research a topic, create an arguable point, develop an action plan, and defend it to a board comprised of neighborhood constituents. These volunteers have offered continuous positive feedback on the professionalism of this project

## **LA12AP: ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION**

*12th grade – yearlong: .5 credit per semester*  
*Prerequisites: Students have passed Reading and Writing HSPE and/or Smarter Balanced Assessment, have an A or B in their 11<sup>th</sup> grade LA class, and are prepared to complete a summer reading assignment as well as take the AP test in the spring.*

*Average homework: 30-60 minutes/night*

An AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. Students also complete a **senior project** in this class..

## **LA 12M: COMPARATIVE LITERATURE AND COMPOSITION**

*12th grade – yearlong: .5 credit per semester*  
*Prerequisite: Individualized Education Plan*

This course meets the requirements for Language Arts 12 and the WSHS required senior project for graduation.

The course is specifically geared toward students with IEPs who qualify for services in reading and/or writing. Students will read a breadth of literature that mirrors what is read in the general curriculum. Students will research, write and present a senior project. The amount of writing in the senior project is dependent upon the ability level of each student. The greatest emphasis is placed upon the visual and project presentation.

## **MATHEMATICS**

### **Graduation Requirements:**

*3 credits of Math through Algebra 2*

*End of Course Exam in Algebra or Geometry for class of 2014*

*Smarter Balance Assessment 2015+*

***See Table on following page for Math Sequence***

### **ALGEBRA I:**

*Yearlong: .5 credit per semester*

*Prerequisites: None*

*Average homework: 30 minutes*

The Algebra 1 math course teaches students to develop math skills and confidence, use tools (graphing calculators, geometer sketchpad, and Fathom 2), and mathematical power to make important decisions in

real world situations. The course focuses on conceptual understanding of data gathering and analysis, linear equations to model real world situations, systems of equations, and quadratic and exponential equations.

### **GEOMETRY**

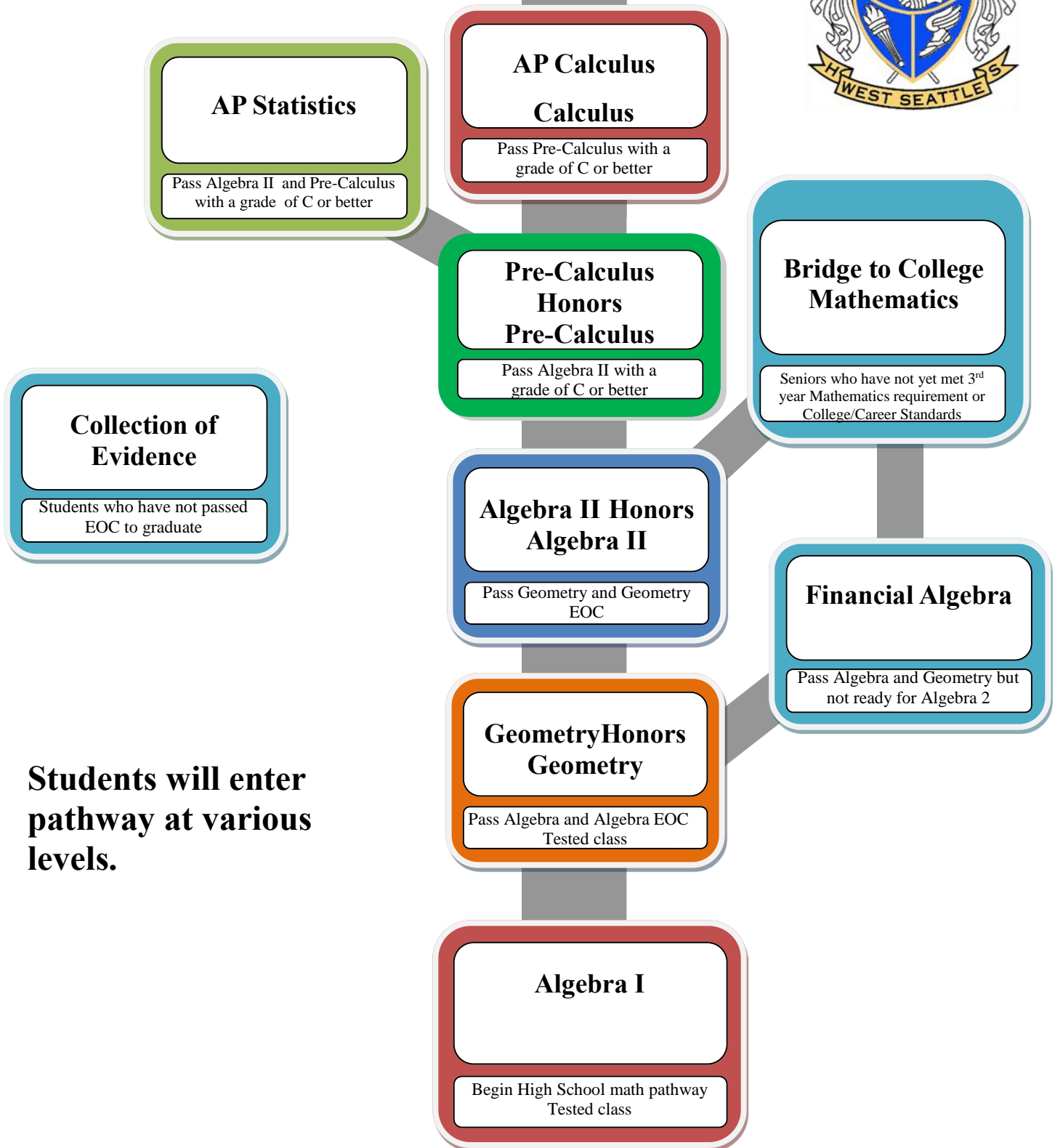
*Yearlong: .5 credit per semester*

*Prerequisites: Algebra 1*

*Average homework: 30 minutes*

The Geometry math course teaches students to identify and recognize shapes based on properties, establish relationships among properties within figures and within hierarchies of figures, use formal and informal inductive and deductive proofs to explain the truth of geometric theorems and to justify certain conclusions. The course focuses on space geometry, inductive and deductive reasoning, mathematical modeling, duplication of segments and angles, discovering and proving polygon properties, arcs and angles, compositions of transformations, and platonic solids.

# West Seattle High School Math Pathway



Students will enter pathway at various levels.

## **HONORS GEOMETRY (9<sup>th</sup> grade only)**

*Yearlong: .5 credit per semester*

*Prerequisites: Pass Algebra 1 with A or B and pass the Algebra 1 end of course examination.*

*Average homework: 30 minutes*

The Geometry math course teaches students to identify and recognize shapes based on properties, establish relationships among properties within figures and within hierarchies of figures, use formal and informal inductive and deductive proofs to explain the truth of geometric theorems and to justify certain conclusions. The course focuses on space geometry in two and three dimensions, inductive and deductive reasoning, mathematical modeling, duplication of segments, angles and triangles, discovering and proving polygon properties, arcs and angles, compositions of transformations, triangle trigonometry and platonic solids. Students are held to a high standard of rigor, there is more emphasis on axiomatic proofs and topics are explored in greater depth.

## **ALGEBRA 2**

*Yearlong: .5 credit per semester*

*Prerequisites: Algebra 1 and Geometry. Students have to pass both Algebra 1 and Geometry end of course examinations.*

*Average homework:30 minutes*

Students learn to derive equations, to model pure-algebra concepts using data analysis, and to present solutions to math problems using multiple representations. The topics in this course include describing data, linear models, functions and relations, transformation, exponential and logarithmic functions, quadratic and polynomial functions, conic sections, rational functions, series, and trigonometry.

## **HONORS ALGEBRA 2**

*Yearlong: .5 credit per semester*

*Prerequisites: An A or B in both Algebra 1 and Geometry. Students have to pass both Algebra 1 and Geometry end of course examination, teacher recommendation.*

*Average homework: 40 minutes*

Students learn to derive equations, to model pure-algebra concepts using data analysis, and to present solutions to math problems using multiple representations. The topics in this course include describing data, linear models, functions and relations, transformation, exponential and logarithmic functions, matrices, quadratic and polynomial functions, conic sections, sequences and series, rational functions, and trigonometry. Students are held to a high standard of rigor, there is more emphasis on axiomatic proofs and topics are explored in greater depth.

## **BRIDGE TO COLLEGE MATHEMATICS**

*Yearlong: .5 credit per semester*

*Prerequisites: Seniors who have not passed Algebra 2 or who have passed Algebra 2 but need additional math intervention prior to college.*

*Average homework:30 minutes*

Bridge to College Mathematics is an engaging course that emphasizes modeling with mathematics and the Standards for Mathematical Practice found within the Washington K-12 Mathematics Learning Standards which are known as the Common Core State Standards, CCSS-M. The course is designed to prepare students for entrance into non-calculus pathway introductory college-level mathematics courses by addressing Algebra I, statistics, geometry, and Algebra II standards essential for college— and career-readiness

## **PRE-CALCULUS**

*Yearlong: .5 credit per semester*

*Prerequisites: Geometry, Algebra 2*

*Average homework: 45minutes*

Pre-calculus students use functions as a mathematical basis for the study of real-world phenomena such as determining the distance between two planets as the angle of the Sun varies, rates of exponential change in bacteria growth and average velocity calculations. Major topics are the in depth study and writing of rational, logarithmic, exponential, polynomial, and power functions. Students develop mathematical models of periodic functions and right triangle problems. Students explore trigonometric and circular functions that include all six trigonometric function properties including their identities, with the use of parametric functions. The properties of combined sinusoids, and three dimensional vectors are also addressed.

## **AP STATISTICS**

*Yearlong: .5 credit per semester*

*Prerequisites: Successful completion of Pre-Calculus or Algebra 2 (with teacher recommendation).*

*Average homework: 45 minutes*

AP Statistics covers the recommended syllabus necessary to succeed on the AP Statistics Exam given in early May. This includes the following topics: Describing Data, Graphical displays, Regression (Linear and Non-Linear); Experimental design, Sampling Theory, Probability, Sample Spaces, Random Variables, Significance Tests for Means and Proportions, Chi-Square test for Homogeneity and Independence. The course is roughly equivalent to a two-quarter introductory course to Statistics in college.

## **CALCULUS**

*Yearlong: .5 credit per semester*

*Prerequisites: Successful completion of Pre-Calculus*

*Average homework: 60 minutes*

Calculus will focus on four major ideas: Limits, derivatives, indefinite integrals, and definite integrals. In each of these areas, we will develop the conceptual understanding of each concept, show how the mechanics go along with it, and apply it to solve real life applications. Students will investigate these major



topics in four different representations: graphically, numerically, and analytically, and verbally. Students are expected to understand how these are related and to be able to move from one representation to another. Students are expected to be able to describe concepts and procedures and explain solutions to problems both orally and in written sentences. Conceptual understanding is highly stressed.

### **AP CALCULUS A/B**

*Yearlong: .5 credit per semester*

*Prerequisites: Successful completion of Pre-Calculus with an A or B.*

*Average homework: 60 minutes*

The Advanced Placement Calculus A/B course is a college-level introductory calculus course. Colleges will give credit for up to one year of calculus for students who score 3, 4, or 5 on the AP Calculus test that is given in May. We focus on four major ideas: Limits, derivatives, indefinite integrals, and definite integrals. In each of these areas, we will develop the conceptual understanding of each concept, show the mechanics that go along with it, and apply it to solve real life applications. Students will investigate these major topics in four different representations: graphically, numerically, analytically, and verbally. Students are expected to understand how these are related and be able to move from one representation to another as well as be able to describe concepts and procedures and explain solutions to problems both orally and in written sentences. Conceptual understanding is highly stressed. This course will concentrate on topics that are covered on the exam. After that date, we will explore other concepts that are covered in the Calculus B/C course.

### **BASIC MATH 1M AND 2M**

*9<sup>th</sup> and 10<sup>th</sup> grade, yearlong: .5 credit per semester*

*Prerequisite: Individual Education Plan*

Basic Math 1M and 2M will move from mastering basic mathematical skills (addition, subtraction, multiplication and division) to higher-order thinking in fundamental math concepts such as place value, the inter-relatedness of operations and data analysis. There will be a focus on math vocabulary fluency and on mathematical processes and patterns. The processes are practiced often with consumer math problems to connect with realistic life situations.

### **GENERAL MATH 1M AND 2M (PRE-ALGEBRA)**

*9<sup>th</sup> and 10<sup>th</sup> grade, yearlong: .5 credit per semester*

*Prerequisite: Individual Education Plan*

This class provides practice, review, and application opportunities for student learning with units of pre-algebra as a foundation for algebra. Connections to the world, work, and technology make these learning experiences relevant to life. There will be ample

opportunity for student learning through consistent practice, review, and application.

### **CONSUMER MATH 1M AND 2M**

*11<sup>th</sup> and 12<sup>th</sup> grade, yearlong: .5 credit per semester*

*Prerequisite: Individual Education Plan*

The purpose of this course is to help each student develop a knowledge base of applied math skills and the confidence to manage lifelong finances with independence. In each learning unit, we will examine the mathematical problems that arise in daily, independent living. Through rigorous learning activities, varied approaches to learning, personal reflections, and frequent checks for understanding the students will develop a solid foundation in consumer mathematics.

## SCIENCE

### Science Graduation Requirements:

3.0 credits (3 years) for C/O 2020

(2.0 credits for C/O 2017, 2018, 2019)

**4.0 Credits are recommended for a 4-yr College**

*As of Jan. 2016, passing Bio EOC Exam is required*

*Note to students about Science prerequisites: Pre-reqs are designed to help you understand which classes you are probably ready for. Taking a class before you are ready for it is not a good thing. Pre-reqs are the minimum qualification that works for most students. If you have questions about pre-reqs or you think your case is an exception, feel free to talk with your science teacher.*

### FRESHMEN

*All freshmen take Biology. Upperclassmen do NOT repeat Biology (if needed, Integrated Science is taken)*

### BIOLOGY

9<sup>th</sup> grade – yearlong .5 credit per semester

*Upperclassmen do NOT repeat Biology (talk to your counselor)*

*Prerequisite: None*

*Average homework load: 15-20 min/night*

Biology is the study of life. Students will investigate the conditions, processes, and structures that produce and sustain life, and will examine the diversity of life and the interdependence of living things in the environment. *This course is a key part of your preparation to pass the State required EOC exam.*

### BIOLOGY HONORS

9<sup>th</sup> grade – yearlong .5 credit per semester

*Prerequisite: Students must be above grade-level in Math, Reading, and Writing.*

*Average homework load: 20 min/night*

Similar to Biology (above), but this course challenges students to study additional topics and at greater depth; it will involve more reading, writing, and a greater emphasis on lab activities and exam performance.

### SOPHOMORES, JUNIORS OR SENIORS

### INTEGRATED SCIENCE

10<sup>th</sup>-12<sup>th</sup> grade – yearlong .5 credit per semester

*Prerequisite: For students who have not passed the Biology EOC or who desire greater preparation before taking an upper level course like chemistry and physics. DO NOT sign up for this class unless directed to by your Biology teacher or counselor.*

*Average homework: 20 min/night*

### MARINE SCIENCE (UW in High School)

10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup> grade – yearlong: .5 credit per semester

*Prerequisites: Biology (required C or better)*

*Average homework load: 20 min/night (30 for UW)*

Marine science is integrated with learning standards through the University of Washington's Oceanography 101. **Students who opt for the university option have the opportunity to earn 5 college quarter credits upon successful completion of this course for Oceanography 101.** The first semester covers the physical nature of oceans including: geology, physical and chemical properties of water, relationship of ocean climate, and environmental impacts on Puget Sound. The 2nd semester focuses strongly on marine organisms of Puget Sound and students conduct fieldwork in conjunction with The Seattle Aquarium. *Earning UW Credits requires a tuition payment (TBA).*

### AP ENVIRONMENTAL SCIENCE

11<sup>th</sup>, 12<sup>th</sup> grade – yearlong: .5 credit per semester

*Prerequisites: successful completion of biology and chemistry (Honors, or B or better recommended)*

*Average HW Load: 20 min/night*

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. *(Please see the College Board Website for additional information)*

### CHEMISTRY 1/2

Grade Level: 10<sup>th</sup>, 11<sup>th</sup>, or 12<sup>th</sup>

Length: yearlong (0.5 credit per semester)

*Is this class a Graduation Requirement? No.*

*(But it is encouraged for students going to 4-year universities.)*

*Prerequisites: Biology (C or better; A or B recommended), and Algebra I*

*Average homework: 90 min/week*

Students will learn to see how events at the atomic scale define the world as we experience it. Students will conduct lab experiments designed to illustrate the connection between everyday life and chemical theory. This class is college-prep; students are expected to be serious about devoting out-of-class time to studying.

### HONORS CHEMISTRY 1/2

Grade Level: 10<sup>th</sup>, 11<sup>th</sup>, or 12<sup>th</sup>

Length: yearlong (0.5 credit per semester)

*Is this class a Graduation Requirement? No.*

*(But is encouraged for students applying to 4-year universities for a STEM major.)*

**Prerequisites:** Biology (recommended B or better in Honors, A in regular), and recommended concurrent with Algebra 2

Average homework: 120 min/week

This course is recommended for students who are very strong in math and science, who can function independently in a lecture-and-textbook based course, and are inclined towards college majors in science, technology, engineering, math or medicine.

### **(HONORS) CHEMISTRY 3/4**

Grade Level: 11<sup>th</sup>, or 12<sup>th</sup>

Length: yearlong (0.5 credit per semester)

Is this class a Graduation Requirement? No.

**Prerequisites:** Chem 1/2 (recommended B or better in Honors, or A in regular)

Average homework: 60 min/week

This is a second-year chemistry course. It will expand on the topics of first-year Honors Chemistry, providing more depth, and placing an emphasis on labs (one quarter of class time will be spent on lab work). Also, new topics such as nuclear chem, organic chem and bio chem will be introduced. This class will aim at preparing students to take the Chemistry SAT exam (which is optional, but encouraged, as a good score is a nice addition to a college resume).

As with first-year honors chemistry, this course is only recommended for students who are very strong in math and science, who can function independently as students, and are inclined towards college majors in science, medicine, or engineering. Students may opt-out of the honors designation but still take the class, with a slightly relaxed grading system that places less emphasis on report-writing and certain mathematical problem types.

The HW load is kept moderate to allow students to also take additional science courses (including AP courses) if desired.

### **AP BIOLOGY**

11<sup>th</sup>, 12<sup>th</sup> grade – yearlong: .5 credit per semester

**Prerequisites:** Biology (B or better recommended) and Chemistry (Honors, B or better recommended).

Average homework load: 40 min/night

AP Biology is designed to be the equivalent of a college Biology introductory course. This course is offered to highly motivated students who wish to pursue their interests in the biological sciences. Topics covered by this course include, Anatomy & Physiology, Biochemistry, Biodiversity, Botany, The Cell, Developmental Biology, Ecology, Genetics, Molecular Biology, Origin of Life, Population Biology, and Evolution. (Please see the College Board Website for additional information)

### **PHYSICS A/B**

11<sup>th</sup>, 12<sup>th</sup> grade – yearlong: .5 credit per semester

**Prerequisite:** Algebra 1 and Geometry

Average HW Load: 20 min/night

This is an activity-based course that helps students develop a conceptual understanding of the natural principles in the physical world. General topics include Kinematics (the study of motion), Dynamics (Newton's Laws & the study of forces), Momentum, Work & Energy, Properties of Matter, Sound, Light & Optics, Magnetism and Electric Circuits.

### **AP PHYSICS A/B**

11<sup>th</sup>, 12<sup>th</sup> grade – yearlong: .5 credit per semester

**Prerequisite:** Algebra 2 (Honors Chemistry recommended)

Concurrent with Pre-Calc or higher

Average HW Load: 35 min/night

This is a mathematics-based, college-level course intended for strong science students. This course is modeled after first-year college physics coursework.

(Please see the College Board Website for additional information)

### **SEMESTER-LONG COURSES:**

#### **ASTRONOMY**

10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup> grade – one semester: .5 credit

**Prerequisite:** Algebra 1

Average homework load: 10-20 min/night

This is a survey course. Students should be familiar with Algebra 1 level math skills and be prepared to deal with unimaginably large numbers. Topics will include astronomical measurements & time keeping, the historical development of science, and the laws of planetary motion. We will then investigate our solar system, the lifecycle of stars, galaxies, modern cosmology and life in the universe.

#### **FORENSIC SCIENCE**

11<sup>th</sup>, 12<sup>th</sup> grade – one semester: .5 credit

**Prerequisite:** Biology.

Average homework load: 15-20 min/night

This is an interdisciplinary study involving aspects of chemistry, physics, biology, earth science and technology as well as social studies, communications and mathematics. This course will focus on process: proper scientific methodologies and laboratory practices, analysis and reporting of data and promotion of critical thinking skills. This inquiry based class stresses teamwork. Students will explore the science behind crime scene evidence such as fingerprints, blood, soil, hair, fibers and DNA. You'll practice the laboratory techniques of chromatography, genetic analysis and microscopy, then present and defend your data.

## SOCIAL STUDIES

### Graduation Requirements:

*3 credits (6 semesters)*

*World History I, II, III*

*US History 11A and 11B*

*American Government 12A*

*(Completion of Washington State History or equivalent)*

### **WORLD HISTORY I & II**

*9th grade – yearlong: .5 credit per semester*

*Prerequisites: None*

*Average homework: 30 minutes to 4 hours weekly*

World History I and II explore the emergence of civilizations across the globe up to 1900 C.E. Students investigate how civilizations grew and evolved into kingdoms, empires, and eventually the nations we recognize today. They also examine and analyze economic, political, and social themes and investigate how patterns of interaction impacted the growth as well as the evolution of the world. The class is aligned to Common Core Reading and Writing standards. This ensures that students develop a strong foundation in reading informative texts as well as in writing expository and persuasive essays. Students will write at least two research papers and will be introduced to a more rigorous homework load with coaching on how to meet the intellectual and professional demands of high school.

### **WORLD HISTORY I & II HONORS**

*9th grade – yearlong: .5 credit per semester*

*Prerequisites: Students should have passed their 7<sup>th</sup> grade MSP in Reading and Writing, have an A or strong B in their current history class and be prepared for a quicker reading pace, college level texts and more analytical writing.*

*Average homework: 30 minutes to 4 hours weekly*

World History I & II Honors involves studying the development of early civilizations from around the world up to 1900. Students pay close attention to the similar patterns and interactions that emerged across civilizations. The course also concentrates on critical analysis of the economic, political, and social themes that occurred in early civilizations. The pacing of the course content is accelerated for students, focusing heavily on analyzing primary source documents, a critical analysis of a novel and in-depth essays covering themes in early civilizations.

### **WORLD HISTORY III**

*10th grade – one semester: .5 credit*

*Prerequisites: None*

*Average homework: 30 minutes to 4 hours weekly*

World History III involves the study of the 20<sup>th</sup> century up to the present day. Students continue their investigation of civilizations and the evolution of empires due to global interaction. Study includes but is not limited to the causes and consequences of military

conflicts, emergence of nationalistic ideologies and dissolution of empires, causes and consequences of genocidal movements, and the role of human rights in defining oppression, injustice, as well as the defense of those rights. The class is aligned to Common Core Reading and Writing standards and ensures that students continue to develop a strong foundation in reading informative texts as well as in writing expository and persuasive essays. Students will write at least one research paper and read at least one novel. In World History I, II, and III, and all other history classes, students complete Classroom-Based Assessments (CBA's) where they make consistent and ongoing connections between events of historical important and contemporary world issues.

### **AP WORLD HISTORY** (fulfills WH III requirement)

*10<sup>th</sup> grade: yearlong: .5 credit per semester*

*Prerequisite: AP World History is intended to match the intensity of an introductory college history class. All of the readings are at the college level and the class moves very quickly. We strongly recommend that any student hoping to pursue AP World should have earned an A or B in Freshman Honors World History.*

*Average homework: 50 pages of reading per week and 20-30 minutes of homework per night on average. AP students are expected to take the AP test in the spring.*

The purpose of AP World History is to develop a greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence. The course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage. Periodization, explicitly discussed, forms the organizing principle for dealing with change and continuity from that point to the present. Specific themes provide further organization to the course, along with the consistent attention to contacts among societies that form the core of world history as a field of study. At the end of the course, students are expected to take the National Advanced Placement Examination.

### **U.S. HISTORY** 11<sup>th</sup> grade – yearlong: .5 credit per semester

*Prerequisites: None*

*Average homework: 30 minutes to 4 hours weekly*

United States History is a two-semester survey of American History that begins with a study of the U.S. Constitution and concludes with the examination of

Post-World War II America. This course is taught from a multicultural point of view giving the student an understanding of the impact of the many cultures, events, and persons that make up the history of the United States. The course integrates art, music, literature, history, geography, and economics. In addition, this course requires solid reading and writing skills, along with a willingness to devote considerable time to homework and study that are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills, essay writing, interpreting primary source documents, and historiography.

### **ADVANCED PLACEMENT U.S. HISTORY**

*11th grade – yearlong: .5 credit per semester*

*Prerequisite: AP US History is intended to match the intensity of an introductory college US History class. All of the readings are at the college level and the class moves very quickly. We strongly recommend that any student hoping to pursue AP US History should have earned an A or B in AP World History.*

*Average homework: APUS will require about 50 pages of reading per week and 20-30 minutes of homework per night on average.*

AP United States History is a challenging course that is meant to be the equivalent of a freshman college course and can earn students college credit. It is a two-semester survey of American History from the age of exploration and discovery to the present. Solid reading and writing skills, along with a willingness to devote considerable time to homework and study, are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills, essay writing, interpreting original documents, and historiography. *Students are expected to complete a summer book assignment prior to entering the course as well as take the AP exam in May.*

### **AMERICAN GOVERNMENT**

*12th grade – one semester: .5 credit*

*Prerequisites: None.*

*Average homework: 30 minutes to 4 hours weekly*

The class emphasizes critical thinking skills and analytical understanding of the terms and framework of American government. Reading is assigned in short blocks to be completed by the motivated, responsible student. Individual and group projects will allow students to apply key concepts to real world situations. Discussions will cover broad topics and compliment the assigned reading. The major goal of this course is to instill a deep understanding of American government that will allow students to become informed and educated citizens who participate in the political process in some manner.

### **ADVANCED PLACEMENT U.S. GOVERNMENT & POLITICS**

*12th grade – yearlong: .5 credit per semester*

*Prerequisite: AP Government is intended to match the intensity of an introductory college Government class. All of the readings are at the college level and the class moves very quickly. We strongly recommend that any student hoping to pursue AP Government should have earned an A or B in AP US History.*

*Average homework: AP Government will require about 50 pages of reading per week and 20-30 minutes of homework per night on average. AP students are expected to take the AP test in the spring.*

United States Government and Politics gives students an analytical perspective on government and politics in the United States. This course includes the study of general concepts used to interpret U.S. government and politics along with the analysis of specific examples. Students successfully completing this course will: know important facts, concepts, and theories pertaining to U.S. government and politics; understand typical patterns of political processes and behavior and their consequences; be able to analyze and interpret basic data relevant to U.S. government and politics; be able to critically analyze relevant theories and concepts, apply them appropriately. This course requires considerable reading and homework outside of class to be successful. *Summer reading prior to the course is mandatory as is taking the AP test in May.*

### **ECOMONICS**

*10-12th grade – one semester: .5 credit*

*Prerequisites: None.*

*Average homework: 30 minutes to 4 hours weekly*

Moving from the basic questions of economics through an introductory study of macroeconomics, the class will provide students with a basic understanding of both how the economy works and how it affects their lives. The class will study such concepts as supply and demand, economic indicators, inflation, stocks and bonds, what money actually is, taxation, and business profits. In addition, the class will spend time investigating such personal economic issues as credit cards, paying taxes, investment, and debt. Since the class is not a college-level economics class, every attempt will be made to keep the math skill level as low as possible, though a basic understanding of percentages and simple algebra will be necessary to succeed.

*of these courses will be expected to independently review and master first-year material before the beginning of the school year and periodically throughout the course.*

- Level 3 adds a wide variety of complex verb conjugations and advanced grammar. Students continue to develop skills in written and spoken language. Advanced reading, including poetry, historical information and current events in the target language are part of this course.
- Level 4 is a challenging hands-on opportunity to engage in a variety of culturally relevant historical and social topics and projects that allow students to use all grammatical structures and vocabulary while focusing on speaking, listening and writing.
- Advanced students in Spanish and French are eligible to enroll in the University of Washington in the High School program and can earn 5 hours of university credit if their final grade at the end of the course is 73% or higher. This is a university level course and requires advanced language skills in addition to maturity, organization and student responsibility for workload/studying.

## WORLD LANGUAGES

### World Language Graduation Requirements:

*2.0 credits (2 years) for C/O 2021*

*Classes of 2018, 2019, 2020 do not need a World*

*Language to graduate high school or for Community*

*College; however four-year colleges ask students to have 2-*

*3 years of World Language*

**SPANISH 1, 2, 3, 4, UW in High School, Spanish 103**

**FRENCH 1, 2, 3 UW in High School French 103**

**CHINESE 1, 2, 3, 4**

*Prerequisites: Students should have a 60% or higher grade in previous course (except level 1) or native speaker status.*

*Students who have been most successful in any level have had an 80-85% or higher in previous world language level.*

*Homework: 30-60 minutes/night*

- Level 1 focuses on written and oral communication in the present tense. The first year covers greetings and simple conversations, the use of correct grammar, spelling, punctuation and syntax in basic writing assignments, and simple reading of forms, maps, advertisements and letters. Basic cultural information is also part of the course.
- Level 2 adds the past tense to the skills mastered in level one, with additional vocabulary and more details of grammar and syntax in spoken language, reading and written work. There is a continued focus on cultural information.

*Past Freshmen enrolled in Spanish II, French II, or Chinese II have found that succeeding in second year High School foreign language presents a high-level challenge. Incoming Freshmen and Transfer Students who enroll in any*

## PHYSICAL EDUCATION

### Graduation Requirements:

*1.5 credits (3 semesters), Students must take a Competency Based Assessment*

### **PERSONAL FITNESS**

*9th grade – one semester: .5 credit*

*Prerequisites: None*

This is the introductory Physical Education class for 9<sup>th</sup> grade students required by the Seattle School District. Students will have general PE team sport units ranging from Ultimate Frisbee to Volleyball, and fitness testing. Students will also study the following topics that reflect the *Five for Life* Health and Fitness Concepts: Introduction to Fitness, and Fitness Planning, the importance of muscular strength and muscular endurance, the importance of cardio respiratory endurance to healthy living, how body composition impacts life, and the importance of flexibility in maintaining a healthy life. The course culminates with a State of Washington Classroom Based Assessment Test, based on the *Five for Life* Health and Fitness Concepts.

### **LIFETIME SPORTS**

*All grades – one semester: .5 credit*

*Prerequisites: None*

What does a student need to know to be a physically

active and healthy adult? This is the essential question students will be answering through a lifetime sports lens. Students will concentrate on the rules of lifetime sports and will participate in leisure activities including golf, archery, disc sports, orienteering, yoga/pilates, bowling and more. Students will examine how these lifetime activities can positively impact their fitness levels. Daily physical conditioning (stretching, conditioning, running) will be emphasized as an integral basic of each unit. Students will participate in measuring their fitness levels and working towards standard on the physical fitness test.

### **TEAM SPORTS**

*All grades – one semester: .5 credit*

*Prerequisites: None*

What does a student need to know to be a physically active and healthy adult? This is the essential question students will be answering through a team sports lens. Students will learn about and participate in over 16 different alternative, global and traditional team sports such as volleyball, bucca ball, ultimate Frisbee, badminton, flag football and more. Daily physical conditioning (stretching, conditioning, running) will be emphasized as an integral basic of each unit. Students will participate in measuring their fitness levels and working toward standards on the physical fitness test.

### **WEIGHT TRAINING AND CONDITIONING**

*All grades – one semester: .5 credit*

*Prerequisites: None*

Students will participate in the following activities: weight training, walks and runs, speed and agility, core training, and stretching. Students will be exposed to fitness routines/plans that will incorporate different muscle groups using a variety of training techniques and equipment. Proper safety in lifting and stretching will be taught. Students will be given an overview of anatomy and sports nutrition as well.

### **AEROBICS TRAINING**

*All grades – one semester: .5 credit*

*Prerequisites: None*

This course is designed to give students the opportunity to learn fitness concepts and multiple workout techniques used for obtaining/maintaining optimal physical fitness. Students will benefit from cardiorespiratory endurance, muscular strength, muscular endurance, and flexibility activities. Students will learn the basic fundamentals of aerobic training and overall fitness training and conditioning. Students will be empowered to develop goals, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime.

### **SPORTS MEDICINE**

*All grades – one semester: .5 credit*

*Prerequisites: None*

This course will provide students with a general overview of athletic training, sports medicine, and its history. It includes introductory information about athletic trainer's scope of practice: injury prevention, treatment, rehabilitation, emergency injury management, and administrative functions. This course is intended to help students gain an understanding of sports medicine, various associated disciplines, and the role they play in the physically active community. Students enrolled in this class will not provide patient care.

### **ADVANCED STRENGTH TRAINING AND CONDITIONING**

*All grades – one semester: .5 credit*

*Prerequisites: Must be approved by one of the Physical Education Teachers*

This class is designed for students who want to get a more advanced, specific, and more rigorous lifting experience. Students will participate in the following activities: weight training, cardiovascular workouts, speed and agility, core training, and stretching. Students will be exposed to designing strength and conditioning routines/plans that will incorporate different muscle groups using a variety of training techniques and equipment with a specific goal in mind. Students will be expected to have a basic understanding of weight training and will be highly motivated to participate in class.

### **ADAPTED PE PARTNER**

*All grades – one semester: .5 credit*

*Prerequisites: None*

Adapted PE Partners are responsible for assisting, encouraging, and motivating students during the Adapted Physical Education lesson. They are responsible for keeping a close eye on the student(s) teaching appropriate form and technique during skills to ensure safety and increase time on task and active learning. Adapted PE Partners learn how to use levels of prompting such as verbal, physical, and environmental prompts to assist in the skill learning process.

### **ADAPTED PE-M**

*Credit: PE -.5*

*Prerequisite: Individualized Education Plan*

Adapted Physical Education is a curriculum with a wide variety of experiences in Physical Education that challenges the students, builds upon their current skills and imparts additional skills necessary to remain healthy and active throughout life. This course will provide a variety of activities ranging from individual skills, team skills, personal fitness and cooperative activities.

## FINE ARTS

### Graduation Requirements:

2.0 credits (4 semesters)

### Art:

#### **DRAWING & PAINTING I BEGINNING**

All grades – one semester: .5 credit

Prerequisites: None

Students will learn the basics of 2-D design for visual art, and will be challenged to create artwork which is both technically strong and has expressive meaning for them personally. Students will be introduced to the elements and principles of art, to a wide variety of art materials and processes, and to the process involved in creating original art with meaning. Students are required to interview professional artists, and visit art galleries to broaden their experience. Students will participate in one judged art show and will create a digital portfolio of their artwork.

#### **DRAWING & PAINTING II ADVANCED**

All grades – one semester: .5 credit

Prerequisites: Drawing and Painting I Beginning

Students will be encouraged to design their own projects and polish and broaden the portfolio they created in Drawing/Painting I. Students will be challenged to create a series of artwork and to enter competitions or arrange for exhibitions of their work outside school. Students are required to interview professional artists, and visit art galleries to broaden their experience. Students will participate in one judged art show and will create a digital portfolio of their artwork.

#### **CERAMICS BEGINNING**

All grades – one semester: .5 credit

Prerequisites: None

Homework: Occasionally, ½ hour per month

Students will learn basic hand building, wheel throwing, and glazing techniques. Students will complete the course with a power point portfolio including 8 finished pieces. Students are introduced to ceramic artists and processes through slide presentations and are also required to write a paper on a ceramic artist of their choice. Students create projects which include a Raku fired pot, portrait project, cultural sgraffito pot, and an animal. This is an engaging course with new experiences to help students find a passion for the ceramic arts.

#### **CERAMICS ADVANCED**

All grades – one semester: .5 credit

Prerequisites: Ceramics Beginning

Homework: Occasionally, ½ hour per month

Advanced students will work on building on skills and techniques they learned in beginning ceramics. Students will learn to write proposals for independent projects as well as write a personal artist statement and experiment with glazing techniques. Students will have many opportunities to build skills in wheel throwing, Raku, sgraffito, and combining hand building techniques. Advanced students will also work on sculptures and functional pottery on a larger scale.

#### **GRAPHIC DESIGN (qualifies as Fine Arts or CTE)**

All grades – one semester: .5 credit

Prerequisites: None

Graphic Design is the art of visual communication through two-dimensional works using images and text. Students interested in the design fields such as book design/ publishing, advertising, presentation design, packaging design, magazine layout, corporate design, should enroll in this course. Students will apply their knowledge of the elements of art and principles of design to strengthen their visual literacy. We will explore a range of design techniques using Adobe Photoshop, Illustrator and, In-Design software programs and study the design work of contemporary and historical designers. Possible projects include symbol/logo development, poster design, CD covers, magazine covers, book arts and tee-shirts. Students will maintain a digital portfolio of their work as a midterm and final exam. Students will be expected to use a digital camera to create original imagery to be used in their design work

### Drama:

#### **DRAMA BEGINNING**

All grades – one semester: .5 credit

Prerequisites: None

Students will survey different theatrical skills. The focus is on developmental or creative drama rather than on published works. Through games, exercises and assignments, students will explore speech, improvisation, directing, play writing and team work. The willingness to perform in front of an audience is essential.

#### **DRAMA ADVANCED**

All grades – one semester: .5 credit

Prerequisite: Drama Beginning

Advanced Drama continues to develop skills developed in Drama I. As a member of a product based class and a professional theater students will be performing monologues, new works, pre-published scenes. Students must be willing to perform in front of an audience.

### Music:



### **CONCERT/MARCHING BAND:**

*All grades - yearlong: .5 credit per semester*

*Prerequisites: Basic proficiency on band instrument or teacher permission*

The WSHS Band functions as both the Concert Band and the Marching/Pep Band and is open to all students who play a band instrument. We perform in a variety of settings including parades, concerts and athletic events. Students will improve their skills in articulation, rhythm, tone production, intonation, instrument facility and overall musicality. Participation in occasional rehearsals and performances outside of class time is mandatory for all students. This course can be taken for more than one semester for additional credit. Select students from this class will be invited to participate in the WSHS Musical second semester.

### **ORCHESTRA**

*All grade -- yearlong: .5 credit per semester*

*Prerequisites: Basic proficiency on string instrument or teacher permission*

The West Seattle Orchestra is a dynamic ensemble that performs at a variety of concerts and events throughout the school year. Students gain a solid foundation in string technique, music theory and history as we explore a wide variety of classical and contemporary literature. Participation in occasional rehearsals and performances outside of class time is mandatory for all students. This course can be taken for more than one semester for additional credit. Select students from this class will be invited to participate in the WSHS Musical second semester.

### **BEGINNING/INTERMEDIATE GUITAR**

*All grades – one semester: .5 credit per semester*

*Prerequisites: None*

Students taking this class will gain a basic understanding of guitar technique and music theory through group activities, individual instruction from the teacher, practice time, class discussions and weekly recitals. Students will learn to read and write music and guitar tab in addition to gaining the basic understanding of the construction of music.

### **PIANO**

*All grades – one semester/yearlong: .5 credit per semester*

*Prerequisites: None*

Students will gain a basic understanding of piano technique and music theory through group activities, individual instruction from the teacher, individual practice time, class discussions and weekly recitals. Students will learn to read and write music in addition to gaining the basic concepts of music theory. This class is open to beginning and intermediate level piano students.

### **JAZZ ENSEMBLE:**

*All grades- one semester/yearlong: .5 credit per semester*

*Prerequisites: Teacher permission*

*0 Period Only!*

Students learn and perform music from a wide variety of traditional and contemporary jazz literature. Focus of this ensemble is interpretation, articulation, improvisation and style. This ensemble performs at a variety of local and regional events. Participation in occasional rehearsals and performances outside of class time is mandatory for all students. This class is open to all students with at least basic proficiency playing saxophone, trombone, trumpet, piano, bass, guitar, and drums. Please note that this class is a zero period course and meets before school every day. This course can be taken for more than one semester for additional credit.

## **CAREER AND TECHNICAL EDUCATION**

### Graduation Requirements:

*1.0 credits (2 semesters)*

### Annual/Yearbook

*9th -- 12th grade—yearlong:.5 credit each semester*

*Prerequisites: None*

Would you like to be involved in creating a lasting legacy for your school? Do you love taking pictures and using your creative skills? If so, Yearbook Journalism is the class for you. Students in this class will work to produce a high-quality yearbook. Students will learn the skills required to write journalistic-quality copy, including interviews; take and edit high-quality photographs; and design print publications using current computer editing programs. Contact Ms. McKinney if you have questions.

### Automotive:

#### **AUTO I (BEGINNING)**

*All grades – one semester: .5 credit*

*Prerequisites: None*

In this one semester class, the complexities of the automobile will be broken down into entry-level, digestible, basic sections. Students will learn how to perform and act in a shop environment. We will learn how the engine works and why it runs. We will explore basic maintenance and diagnostic procedures that everyone who drives a vehicle should know about, and we will have fun doing it.

## **AUTO II**

*All grades – one semester: .5 credit*

*Prerequisites: Auto I*

Students will focus on the “Engine Performance” Section (ASE A-8) which includes computer engine controls, ignition systems, fuel and air induction systems (carbs and EFI), exhaust systems, emission control systems, and requires a basic desire to understand electrical. In between our studies, we will be working on customer and scheduled vehicles in areas of study which will require some disciplined self focus. And as before, we will always have fun doing it.

## **AUTO III/IV (AUTO SERVICE)**

*10<sup>th</sup>-12<sup>th</sup> grade– one semester: .5 credit*

*Prerequisites: Auto II*

At this level of training, students will focus on the intricacies of automotive professionalism. Electrical/Electronic (ASE A-6) will be the learning topic. Auto Service is not a “hobby shop” or a place to “hang out”; laughing and joking are part of the real world shop and something that can be employed daily, BUT serious learning will take place. A high maturity level, self motivation, and a desire for success are expected and necessary “norms” in our shop.

## **DECA/Marketing**

### **DECA/ MARKETING I**

*All grades – one semester: .5 credit*

*Prerequisites: None*

Are you looking for a chance to learn real-world business and marketing skills? Students in Marketing 1 will learn basic marketing and advertising concepts. Students will compete in role plays, and present group projects to Marketing judges at regional, state, and international DECA competitions.

### **DECA/MARKETING II, III, IV**

*All grades – one semester: .5 credit*

*Prerequisites: Marketing I*

Advanced DECA/Marketing students will learn advanced marketing concepts and will continue to participate in groups on joint marketing projects. Students will compete in role plays, and present group projects to Marketing judges at regional, state and international DECA competitions.

### **STUDENT STORE: ADVANCED MARKETING**

*10<sup>th</sup>-12<sup>th</sup> grade– one semester: .5 credit*

*Prerequisites: Marketing I*

Would you like to take a leadership role at West Seattle High School and be involved in a fun, hands-on, high-energy class? Student Store might be the class for you. Students taking Student Store will spend their class period working in and managing the Student Store. Students will also be involved in creating store advertisements and making business decisions about

store products and profits.

## **Computer Design and Engineering:**

### **CAD DESIGN AND ENGINEERING I**

*All grades – one semester .5 credit each semester*

*Prerequisites: None*

Students will begin by learning how to identify and create scale drawings in plan, elevation and isometric perspective views. We will then utilize these drawings to build an accurate 3D model. Finally, this 3D model will be constructed utilizing fabrication methods and technology common to industrial manufacturing. Software utilized will include Rhinoceros 3D, Surf Cam and Google Sketchup. Manufacturing tech will include CNC routers, Laser Cutter/Engravers, and Rapid Prototyping 3D printers.

### **CAD DESIGN AND ENGINEERING II**

*All grades – one semester: .5 credit*

*Prerequisites: CAD I*

CAD 2 will further develop students’ 3D modeling and modern manufacturing skills. Project possibilities include, but are not limited to Product Design, Architecture, and Transportation Design. Further emphasis will be placed on professional practice, industrial standard working drawings and the expectations of modern engineers/ designers. Software utilized will include Rhinoceros 3D, Surf Cam and Google Sketchup. Manufacturing tech will include CNC routers, Laser Cutter/Engravers, and Rapid Prototyping 3D printers.

## **INTRODUCTION TO COMPUTER SCIENCE**

*All grades – one semester: .5 credit*

*Recommendation: Successful completion of Algebra & Geometry*

Almost every job will be impacted by computers and technology. Having some understanding of computing will be an essential part of most careers. This course is an introduction to computer science and software engineering for all students interested in developing software applications, not just using them. Through a project-oriented approach, students will explore a variety of programming systems and languages to create interactive applications and systems. By collaborating in a hands-on environment, students will learn problem solving, software design, debugging strategies, and the foundations of computer science (data structures, procedures, and algorithms). Using open-source software tools, students will work on projects.

## **ADVANCED PLACEMENT COMPUTER SCIENCE**

*10, 11, 12–yearlong--.5 credit per semester*

*Prerequisite: successful completion of Algebra II and complete summer coursework if assigned.*

Programming skills are some of the most desirable skills to have when you are looking for a future career. The AP CS A course prepares students to take the College Board AP computer science exam. This challenging class is for those students who are interested in an in-depth course in computer programming. Students will learn to program in the Java language (the most widely used language), with emphasis on problem solving, algorithms, programming style, and programming design. The curriculum is based on the CSE142 course for students intending to major in Computer Science at the University of Washington – a top 10 Computer Science program. Students should plan on devoting at least one hour per day outside of class to succeed in this course. This is one of the most intense but rewarding classes you can take in high school.

### **ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES**

*10, 11, 12–yearlong--.5 credit per semester*

*Prerequisite: successful completion of Algebra II and complete summer coursework if assigned.*

AP Computer Science Principles encourages the application of creative processes while developing artifacts to solve problems. The course focuses on learning to create computational artifacts. Students enrolled in the course learn the role and impact of technology and programming in society. Students also develop an appreciation of programming and technology as a way to personally significant artifacts and an understanding of programming and technology as a way to create solutions to computational problems. The course focuses on an iterative approach to creation of programmatic and digital artifacts similar to the processes used by professional engineers and computer scientists. AP Computer Science Principles is expressly designed to encourage participation in computer science by underrepresented student communities by allowing flexibility in instruction for the use of a variety of computing tools and languages. The course introduces students to a survey of computing topics and provides a comprehension of fundamental programming, the wide variety of applications of programming and programming's trans-formative potential for our global society. The course is the equivalent of a college introductory computer science course and can be offered for UWHS credit for CSE 120. It is complementary to AP CS A and can be taken in either order.

The computational thinking practices stressed are: Connecting Computing, Creating Computational Artifacts, Abstracting, Analyzing Problems and Artifacts, Communicating, and Collaborating.

The five units involved in the framework are: Creativity, Abstraction, Data and Information, Algorithms, and Programming. We will probably use Python for the programming section so there is no overlap with CS A

### **COMPUTER SCIENCE SENIOR PROJECT**

*12–yearlong--.5 credit per semester*

*Prerequisite: successful completion of AP CSA or AP CSP, instructor approval, self-direction and an ambition to participate in application development as a programmer, product manager, or other role.*

CS Senior Project encourages students who are successful in either of the AP classes in CS (CSA or CSP) an opportunity to apply what they have learned to projects that they choose. It allows them to dramatically deepen the understanding that they have of Computer Science. They will learn about the product development process, project management, customer focus, and the process of productizing a product. Students taking this course will be expected to be self-directed and ambitious.

### **Digital Photography**

#### **DIGITAL PHOTOGRAPHY BEGINNING**

*All grades – one semester: .5 credit*

*Prerequisites: None*

Students in Photography class will work on three large photography projects (Portraits, Landscapes, and Still Life/Close Ups) and compete in at least one judged photography show at WSHS. Students will learn the basic functions of working with a digital camera and Photoshop editing software to improve their photographs.

#### **DIGITAL PHOTOGRAPHY ADVANCED**

*All grades – one semester: .5 credit*

*Prerequisites: Digital Photograph Beginning*

Advanced Digital Photography class will work on Studio Lighting techniques for Portrait photography, Night photography, Magazine Covers, and Reflective Surfaces. Advanced students will compete in at least one judged photography show at WSHS and second semester students are encouraged to enter the Washington State High School Photography competition.

### **Family & Consumer Science**

#### **HEALTH**

##### **Graduation Requirement:**

*9th grade – one semester: .5 credit*

*Prerequisites: none*

In Family Health you will be exploring your social, emotional, sexual, physical, intellectual, vocational, and spiritual health. You will have the opportunity to study issues related to making informed decisions and

well as building healthy communication skills. Topics include nutrition and fitness, mental health, substance use and abuse, human sexuality, and more. You will also have opportunities to explore careers and work on leadership skills through FCCLA.

### **CULINARY ARTS (PROSTART)**

*10, 11, 12-yearlong--.5 credit per semester*

*Prerequisites: Must have successfully completed .5 credits of Baking and Pastry or Nutrition and Wellness*

*Homework: 1 hour per week*

Do you love food and cooking? Perhaps you want to learn how to cook—or want to own your own restaurant someday? This course introduces you to the world of professional culinary arts, safety and sanitation, food preparation, meal planning, catering, customer service skills, and many more opportunities to explore this fast-growing industry. Focus on professional knife skills, stocks, sauces, and soups, basic baking, proper sautéing, creative cooking, pasta, gourmet meal production, and many more topics! Students will participate in field trips, competitions, meeting industry professionals, and a variety of cooking opportunities including competitions and the basic foundations of making a delicious meal! If you dream of working in or owning a restaurant someday—you will want to be in this course! A crisp white chef coat is waiting for you...

### **NUTRITION AND WELLNESS**

*10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup> grade--one semester: .5 credit*

*Prerequisite: None*

*Homework: 1 hour or less per week*

Do you want to learn to cook a healthy meal? Did you know that six of the ten leading causes of death are related to diet? With so much nutrition information looming around today, how will you know what is really good for you? This course explores the fundamentals of wellness through studying nutrition and learning to cook. You will put your knowledge into action by preparing healthy meals in the kitchen labs while also learning basic kitchen safety and cooking skills! Some of the topics explored in this course are dieting, weight management, genetically modified foods, disease prevention, learning about calories and food labels—and of course, preparing delicious healthy meals. This class also explores the scientific method and allows students to practice basic math skills in understanding the caloric value of food. Students will also study wellness from a holistic perspective including stress management techniques, meditation, social health, spiritual/emotional/mental health, intellectual and vocational health, goal-setting, and leadership skills.

### **INDEPENDENT LIVING**

*11<sup>th</sup>, 12<sup>th</sup> grade--one semester: .5 credit*

*Prerequisites: None*

*Homework: Less than one hour per week*

Have you already started getting credit card offers in the mail? Have you wondered how you are going to get a job after school? Come join this course that allows you to explore the tools to live on your own and be successful in “the real world. Learn how to make money from your own money through saving and investing. Explore many other personal finance topics like credit, taxes, stock market, budgeting, and banking. Also included in this course are: cooking on a budget, basic easy meals, housing and interior design issues, clothing care, financial literacy, insurance, internet safety, buying versus renting a home, living with roommates, the college financial process, sustainable housing and leases, using your voice to make a difference, presentation skills, career exploration and preparation, leadership opportunities, auto purchasing and basic maintenance, emergency planning, and much more!

### **HUMAN DEVELOPMENT**

*10<sup>th</sup>—12<sup>th</sup> grade--one semester: .5 credit*

*Prerequisites: None*

*Homework: 1 hour per week*

A prerequisite for the Health Sciences Skills Center, this course explores the human life cycle including pregnancy, parenting, and childcare. You will even have an opportunity to have first-hand experience for caring for a baby with our robotic baby simulator, which goes home you! Learn about family relationships, anatomy and physiology, and theories and stages of physical and intellectual human development. Get in-depth knowledge of the human life cycle from conception through adulthood. Learn what steps are needed to care for small children, and understand the unique/complex aspects that make us grow. This is a great class if you're interested in healthcare, childcare, or psychology.

### **BAKING AND PASTRY/INTRODUCTION TO CULINARY ARTS**

*9<sup>th</sup>—11<sup>th</sup> grade--one semester: .5 credit*

*Prerequisites: None*

*Homework: 1 hour per week*

Want to impress your friends and palate with creative and fun desserts!? Do you love the smell of fresh bread baking? This is a semester introduction to culinary arts that focuses on basic baking and pastry skills. Learn to create and plate gourmet desserts, pastries, breads, and quick breads. Experiment with chocolate and other desserts while building basic math skills like measuring using scales and the metric system. Learn basic safety and sanitation skills while in the kitchen as well as develop food service and marketing skills. You will also be able to explore food photography and journalism through this class as well as participate in community and school catering events. You must take

this course or nutrition to enroll in the advanced culinary classes (ProStart).

### **Journalism:**

#### **JOURNALISM/ADVANCED JOURNALISM**

*9<sup>th</sup> -- 12<sup>th</sup> grade –yearlong: .5 credit each semester*

*Prerequisites: None*

Do you want to have your voice heard? Do you like writing, photography or design? Then the school newspaper is the class for you. In this course you will learn the basics of journalism and then you will put that knowledge into practice, producing the school paper, *The Chinook* on a monthly basis.

### **Woodworking:**

#### **WOODWORKING I**

*All grades – one semester: .5 credit*

*Prerequisites: None*

Course curriculum combines technical instruction with “hands on” shop experience through the construction of assigned projects. Students will learn to operate the tools and machines used in the trades and industry. Upon completion of the course, students will understand the necessity of safe and precise work; demonstrate measurement skills, woodworking vocabulary and the techniques and processes used to produce quality work. Course also qualifies for Tech Prep (college) credit.

#### **WOODWORKING II, III, IV**

*10<sup>th</sup>—12<sup>th</sup> grade – one semester: .5 credit*

*Prerequisites: Wood I*

Advanced Woodworking is designed for students who desire advanced study in wood craftsmanship. With instructor support, students select individualized projects based on skill level and budget. This course builds on skills previously learned in the introductory woodworking class. The goal is to develop greater independence in the context of safety, design, layout, and the processes and techniques of advanced woodworking. Course also qualifies for Tech Prep (college) credit.

#### **FAMILY RELATIONSHIPS/PARENTING**

*10<sup>th</sup>- 12<sup>th</sup> grade--one semester: .5 credit*

*Prerequisites: None*

*Homework: Less than one hour per week*

Prepares students to face the challenge of becoming a healthy individual, family, and community member. Life-long health decisions relate to: physical, social, emotional, psychological growth, mental and reproductive health, health risks, stress, problem solving, safety and consumer decisions. The course focuses on the interrelationships of healthy choices and a productive satisfying life as an individual, family member, worker, and community member. Students explore careers in health and human service fields,

apply 21st Century Skills, and utilize National FCCLA (Family, Career, & Community Leaders of America student leadership activities to assess learning. Dual Credit/ Tech Prep college credit may be available. The course is a cross credit with Health graduation requirement.

### **Career Choices**

#### **CAREER CHOICES 1 AND 2**

*CTE Credit, 0.5 credit per semester*

*Prerequisite: age 16 or older*

Career Choices 1 and 2 offer students the opportunity to develop a school- or community-based (typically unpaid) internship in their career pathway of interest. Each internship site is developed cooperatively by the student and the internship teacher.

Students meet on campus for the first two weeks, then once per week for a seminar to discuss and develop job skills; complete interest inventories; learn about workplace safety and the law; research careers; generate polished resumes, cover letters and job applications; and develop realistic career plans. The other four days per week during class time, students are released to complete hours at their internship sites. Each student also completes a half-day job shadow during the semester.

Required for their internship, each student creates a learning plan with their employer and internship teacher, and does at least 90 documented hours at their internship site to earn credit (hours may not be double-counted toward Service Learning). Each student also writes weekly journal entries and creates a Transition Portfolio. Career Choices 1 and 2 can be any period 1<sup>st</sup>-6<sup>th</sup>, and after school/on weekends for 7<sup>th</sup> period. Parents/guardians must sign SPS permission for student to leave campus; transportation is typically provided by the student.

## **OTHER ELECTIVE OFFERINGS**

### **LEADERSHIP**

**(CTE CREDIT):**

*10<sup>th</sup>—12<sup>th</sup> grade –yearlong .5 credit each semester*

*Prerequisite: ASB officer*

Leadership is a yearlong course offered to those students interested in holding an ASB position or getting involved in the Associated Student Body as well as any Link Crew Leader. Students work on planning community service events, social events, fundraising, and spirit events. Students will prepare for public speaking and learn effective habits of successful students and leaders. This class works towards improving school engagement and morale. Leadership is a mandatory class for all student officers, and open to all grade levels.

## **LINK CREW -PROJECT MANAGEMENT**

(CTE CREDIT):

*10<sup>th</sup>—12<sup>th</sup> grade—yearlong .5 credit each semester*

*Prerequisite: Selection as a Link Leader for the 2015-16 school year*

In this course Link Leaders will develop their leadership skills and help make decisions about the Link Crew program throughout the year. We will focus on four main things: developing the skills and habits of strong leaders; delivering monthly lessons to 9<sup>th</sup> grade classes; improving public speaking skills; and planning Link meetings, events and communication

## **SPECIAL PROGRAMS**

### **English as a Second Language**

*Bilingual students who qualify via the Washington English Language Proficiency Exam (WELPA) are enrolled in these courses. They exit the ESL program by obtaining a Level 4 on the WELPA.*

### **ESL LANGUAGE ARTS 9A/B, 10A/B**

*9<sup>th</sup>, 10<sup>th</sup> grade—yearlong 0.5 credit/semester*

*Prerequisite: WELPA score*

The curriculum for this course aligns with ELA common core standards. It also includes the Edge curriculum, published by Hampton-Brown. There is emphasis on increasing English reading, writing, speaking, and listening skills.

### **ESL LANGUAGE ARTS 11A/B, 12A/B**

*11<sup>th</sup>, 12<sup>th</sup> grade—yearlong 0.5 credit/semester*

*Prerequisite: WELPA score*

The curriculum for this course aligns with the ELA common core standards. It also includes the Edge curriculum, published by Hampton-Brown. There is emphasis on increasing English reading, writing, speaking, and listening skills.

### **ESL WORLD HISTORY 1-3 MULTILEVEL**

*9<sup>th</sup>, 10<sup>th</sup> grade—3 semesters 0.5 credit/semester*

*Prerequisite: WELPA score*

The curriculum for this course aligns with the Washington State Social Studies standards. It includes chronological and regional study of geography, history, culture, politics, and economics.

### **ESL US HISTORY 11A/B**

*11<sup>th</sup> grade—yearlong—.5 credit per semester*

The curriculum for this course aligns with the Washington State Social Studies standards. There is a focus on the completion of a junior project which gives juniors the necessary skills to advance to American Government. It includes research, primary and

secondary sources, conducting interviews, writing a social studies topic report, and making a presentation.

### **ESL AMERICAN GOVERNMENT AND ECONOMICS**

*12<sup>th</sup> grade—one semester—.5 credit*

The curriculum for this course aligns with the Washington State Social Studies standards. There is a focus on the completion of a power point project which includes research, primary sources, conducting interviews, writing a historical report, and making a presentation.

### **ESL EXTENSION**

*9<sup>th</sup>-12<sup>th</sup> grade—one semester—.5 credit per semester*

This class gives ESL students additional support for their mainstreamed classes and additional skills need to pass EOC and HSPE exams.

### **Individualized Education Program**

*(IEP Services)*

A student's special needs, as outlined in an IEP, will determine what type and amount of services the student will receive. The IEP Case Manager and IEP Team work with the counselor, department chair, parents, and the student's other teachers to help the student succeed. We offer a continuum of services that range from support provided in the general education classroom, to special education content area classrooms for instructional and functional academic needs, to off campus classes through Exploratory Internship Program (XIP) and City Campus programs. Emphasis is placed on educating each student in the least restrictive environment based on their individual needs. Questions can be directed to your student's case manager or our special education department chair, Mykenna Ikehara [mkikehara@seattleschools.org](mailto:mkikehara@seattleschools.org).

### **FOCUS**

*Prerequisite: Individual Education Plan*

Focus provides resources and extended learning to students with IEPs. Students will receive specially designed instruction (SDI) outlined in their IEPs in reading, math, written expression, behavior, communication skills and organization skills. Needed skills will be taught using large group, small group and individualized instruction. Supplementary instruction may be provided by various computer-assisted instructional packages. Students will be expected to stay fully engaged in SDI lessons, working on current classroom assignments, make-up work, reading, academic planning, and improving study and organizational skills.

## COMMUNICATION SKILLS

*Prerequisite: Individual Education Plan*

Communication Skills classes are taught using actual student experiences and situations. Developmental and cultural differences are considered in each lesson. Communication skills teachers' verbal and non verbal social cues and strategies are used for emotional regulation. Additionally, student-to-student communication and conflict resolution are explored. Further, students will receive academic as well as study skills support according to IEP goals.

## LANGUAGE ARTS M

*Prerequisite: Individual Education Plan*

Our Language Arts M classes are built upon delivery of the pragmatic skills which students will require to maximize their independence in the wider world such as common word/phrase recognition, conceptual organization and written communication. Students successfully completing this course will be able to use written, verbal and/or visual language to communicate their needs, wants and desires.

## MATH FOR DAILY USE

*Prerequisite: Individual Education Plan*

The focus in this course is to enable students to successfully negotiate common mathematical tasks such as grocery shopping, transportation and basic money management. Students are challenged according to their ability which is reflective of student placement within a continuum or service delivery.

## SCIENCE SURVEY

*Prerequisite: Individual Education Plan*

A mixed ability class focused on basic science and scientific principles, including, but not exclusive to; Newtonian physics, astronomy, geology, meteorology, medicine and electricity and invention.

**Goals and objectives:** A successful student will participate in class discussions, complete assigned tasks, attempt all material regardless of difficulty, maintain positive progress with regard to aligned IEP goal(s) as ascertained by a process of continuous assessment, recorded within monthly IEP progress report. **Materials:** Provided. **CLASSROOM EXPECTATIONS:** A successful student will be ready for class in time, in dress and in attitude, respect fellow students and keep their hands to themselves, listen, then think, then ask.

## LIFE SKILLS

*Prerequisite: Individual Education Plan*

The Life Skills class provides students with essential living skills such as basic hygiene, interpersonal communication, self-management, social etiquette, basic nutrition and planning. It is the central goal of this course that upon completion students will be able

to: maximize their safety in the workplace and/or community via a variety of self-management techniques, such as sight recognition of common work and community signage and/or computer keyboarding skills. Students will be encouraged to take advantage of family and community-based leisure activities as they transition from school to the wider world.

## PRE-VOCATIONAL TRAINING

*Prerequisite: Individual Education Plan*

The Pre Vocational Training classes are designed to establish the foundational skills which are essential for both competitive and managed employment. Skills that are focused on include demonstrating resilience, being able to stay on task; following directions; exhibiting flexibility and working to an established standard.

## EXPLORATORY INTERNSHIP PROGRAM (XIP)

*Prerequisite: Open to students aged 15+ who have Individual Education Plans, application required, see Counselor*

*Credits: 1.5 or 3 credits Occ. Ed., Elective*

- XIP/Career Choices at John Stanford Center Offices, Mailroom and Community sites (half day, 1.5 credits)
- XIP/Landscaping at Ingraham High School (all day, 3 credits)

## OFF CAMPUS PROGRAMS

### Running Start

The Running Start program at all of the 2-year colleges provides high school juniors and seniors the opportunity to earn high school and college credits at the same time. Tuition is free at The Seattle Colleges. Students are responsible for purchasing their own books, paying lab costs and providing their own transportation to the campus. To qualify, students must have earned 10 credits prior to entering the program; students must also take the COMPASS Assessment test (offered regularly at each Community College). *It is important to meet with your counselor to discuss successful test results and receive assistance in completing the Running Start Application.* Enrollment for Fall courses must be completed in the Spring prior to enrollment.

### Seattle Vocational Institute (SVI)

SVI, located at 21<sup>st</sup> and S. Jackson, is another option provided through Running Start This program provides the opportunity for Junior and Seniors to pursue vocational training in areas including: medical assisting, cosmetology, medical administrative specialist, computer based accounting, administrative

office professional, network technical and pre-apprenticeship in construction trades. These programs are most appropriate for students who have a good idea of the specific trade that they want to enter. All remaining high school graduation requirements are met through this program. The deadlines for application are similar to those of the Running Start program. *If interested, juniors and seniors should discuss this option with their counselor.*

### **City Campus**

Prerequisite: Open to all students age 16+, application required, see Counselor

City Campus classes are open to all Seattle Public Schools students. The City Campus program includes Health Occupations, Autobody Collision Technology, Automotive Technology and Career Workplace Exploration in Skilled Trades. City Campus classes are 2-3 periods long and students can earn 1.0-1.5 high school credits per semester. Students who earn a “B” or better grade in the yearlong programs for Health Occupations, Autobody Collision Technology and Automotive Technology also earn up to 20 college credits through Tech Prep.

### **Skills Center:**

Prerequisite: junior or senior, 10 high school credits completed; application required, see Counselor

All Skills Center programs are high rigor (state-approved preparatory) and keyed to industry forecasts for high wage careers. These courses are driven by market demand so Skills Center students are motivated to enter the workforce at a high level, plus get a jumpstart on college and careers.

The Seattle Public Schools Skills Center provides a chance for delivering advanced career and technical education programming, distributed throughout the city. (We do not currently provide transportation.)

### **AEROSPACE SCIENCE 1A & 1B @ KING COUNTY**

#### **AIRPORT**

Prerequisites : Students can also earn .3rd year Math credit in Applied Math 2, 3, or 4 Computer Applications (preferred) AND Manufacturing Foundations or Manufacturing Technology or Introduction to Engineering Design (IED) or Principles of Engineering (POE) or Digital Electronics (DE) or Automotive Technology 1 & 2

Students can also earn .3rd year Math credit in Applied Math 2, 3, or 4

Aerospace Science focuses on safety, tool identification and proper use, and other technical skills such as fastener installation, aluminum and titanium metal drilling, part installation, and the use of composite materials in the aircraft manufacturing industry. Students will practice their skills on mock aircraft training stations. Limited paid internships may be available. The program is designed to provide students with basic knowledge that would assist them in qualifying

for entry-level aircraft mechanic positions. There will be several certificates available with this program

### **AEROSPACE SCIENCE, YEAR 2 @ RAINIER BEACH HS**

Required prerequisite- Skills Center Aerospace Science, Year 1,

Cross credited- 3<sup>rd</sup> Year Math (Applied Math 2, 3 or 4) 2 semesters, 1.5 credits per semester

Aerospace Science will continue to focus on safety, tool usage and installation. Students will be introduced to welding, brazing, mill and lathe work. The class will provide students with basic knowledge that would assist them in qualifying for entry level manufacturing aircraft mechanic training programs offered from local aircraft manufacturing industries and community/technical colleges. Limited internships may be available.

### **ANIMATION & GAMING 1A & 1B @ ACADEMY FOR INTERACTIVE ENTERTAINMENT, SEATTLE CENTER**

Prerequisites: Computer Applications or Exploring Computer Science

Cross credited with .5 Fine Arts credit

Sketching and storyboarding in 2D animation, concepts of 3D animation, introduction to MAYA applications and animation.

### **ANIMATION & GAMING 2A & 2B @ ACADEMY FOR INTERACTIVE ENTERTAINMENT, SEATTLE CENTER**

Cross credited with .5 Fine Arts credit

Students will learn the range of skills necessary for a career in animation used in visualization imaging, film, and video games. Focus will be on enabling students to create concepts, design, model, texture, rig, light, and animate game and film characters

### **DIGITAL ANIMATION, YEAR 2 @ SEATTLE CENTER**

Cross credited- Fine Arts

Prerequisite- Skills Center Digital Animation/Gaming Year 1, Algebra 1

2 semesters, 1.5 credits per semester

This Skills Center class is offered at the Academy of Interactive Entertainment (AIE). By creating a series of games, students learn programming skills applied to game design along with the application of advanced mathematical concepts. Students will advance their animation and programming skills and continue to embed 21<sup>st</sup> Century Skills into their course work. Students work in teams to develop games, while increasing their programming skills. Students are exposed to the real-world production cycle from concept to delivery.

### **CISCO INFORMATION TECHNOLOGY ESSENTIALS 1A & 1B @ RAINIER BEACH HIGH SCHOOL**

Prerequisites: Computer Applications or Exploring Computer Science

Students can also earn 3<sup>rd</sup> year Math credit in Applied Math 2, 3, or 4

IT Essentials provides an overview of computer fundamentals and an introduction to advanced concepts. PC



hardware, software, and network operating systems which prepare students for Comp TIA A+ certification and entry level IT support careers.

### **CISCO DISCOVERY 2A & 2B @ RAINIER BEACH**

#### **HIGH SCHOOL**

*Prerequisites: Computer Applications or Exploring Computer Science*

*Students can also earn 3<sup>rd</sup> year Math credit in Applied Math 2, 3, or 4*

Cisco Certified Network Analyst (CCNA) Discovery provides an overview of general networking theory and opportunities for practical hands-on lab experiences, portfolio planning, career exploration, and soft-skills development. Prepares students for Cisco CCENT certification and is the first step in Cisco CCNA certification.

### **CISCO YEAR 2 @ RAINIER BEACH HIGH SCHOOL**

*Required prerequisite- Skills Center CISCO Info Tech Yr 1*

*Cross credited- 3<sup>rd</sup> Year Math (Applied Math 2, 3, or 4)*

*2 semesters, 1.5 credits per semester*

CCNA Exploration – curriculum teaches networking based on technology, covering protocols and theory at deeper levels reflective of university practices. Students enhance their knowledge of routing, switching, and advanced technologies to prepare for the CCNA certification and careers in Information and Communications Technology (ICT). IT Culminating Activities – Preparation for CCNA exam and introduces CCNP which are advanced skills required to manage end-to-end converged network infrastructures

### **COMPOSITES @ CLEVELAND HS**

*Recommended prerequisite- Woods or PLTW (Project Lead the Way)*

*2 semesters, 1.5 credits per semester*

The Composite Technician program is designed to prepare students to fabricate, assemble and repair composite materials. Students will identify and utilize appropriate materials and processes to assemble structures made of composite materials. They will test and repair composite structures. This program is designed to transition students into various Composite Technician programs or into entry level positions in the aerospace and composite industry.

### **CULINARY ARTS @ RAINIER BEACH HS**

*Required prerequisite- Family Health or Nutrition/Wellness or Human Development or Food Science or Pro Start 1A & 1B or Culinary Intro*

*2 semesters, 1.5 credits per semester*

The class is a lab based study of culinary and chef training and food production skills. It introduces students to the growing fields of Hospitality/Tourism, Culinary, and Food and Beverage. Through a lab-based study of cooking techniques and related culinary arts, students explore topics that include instruction in food preparation, recipe and menu planning, supervised training as the kitchen assistants,

management of food supplies and kitchen resources, aesthetics of food presentation and design, introduction to hospitality industry, sanitation and safety, applicable regulations, equipment operation and maintenance, and principles of food service management. The course requires participation and worksite experience both in school and community settings.

### **FIRE SCIENCE @ FRANKLIN HS**

*Recommended prerequisite- None*

*2 semesters, 1.5 credits per semester* In this program, students will prepare for careers as firefighters or in those closely-related occupations that require specialized training as a firefighter. Students will learn the academic responsibility of being a firefighter as well as the use of safety equipment through a variety of hands-on activities. Many of the fire service workplace requirements are incorporated into the classroom environment. As cadets, students will learn leadership skills (preside, guide or manage self and others). They will also apply leadership skills in the real-world, family, community business and industry.

### **HEALTH SCIENCE/MEDICAL ASSISTING @ WILSON PACIFIC**

*Required prerequisite- Family Health or Nutrition/Wellness or Human Development or Food Science or Biomedical Science or Sports Medicine or Health Intro*

*Cross credited- Applied Math 2 or Lab Science*

*2 semesters, 1.5 credits per semester*

The course provides students with a broad survey of core skills needed in the Health Sciences cluster and leads to high demand health and medical careers. The class uses leadership projects, modules, and project-based activities in school and community-based industry settings. Students apply foundation health standards, gain essential skills for healthcare fields, and practice for clinical placements leading to post-secondary completion of an accredited medical assisting program and medical assisting certification.

### **MEDICAL CAREERS CORE 1A & 1B @ WEST SEATTLE HIGH SCHOOL**

*Prerequisites: Family Health or Nutrition/Wellness or Human Development or Food Science or Biomedical Science or Sports Medicine*

*Cross credited with .5 Lab Science credit, Students can also earn 3<sup>rd</sup> year Math credit in Applied Math 2, 3, or 4.*

Overview/skill development in Health/Medical careers, law & ethics, precautions, infection control, HIV/AIDS, medical terminology, communication, computer & clinical skills, field experiences, & business applications. Health Occupations Student Association (HOSA) leadership activities introduced.

### **MEDICAL CAREERS CLINICAL 2A & 2B @ WEST SEATTLE HIGH SCHOOL**

*Cross credited with .5 Lab Science credit, Students can also earn .3<sup>rd</sup> year Math credit in Applied Math 2, 3, or 4.*

Students prepare for Advanced Nursing Assistant Certification. Students learn how to assist patients in medical and hospital clinical settings. Students also develop skills in the areas of phlebotomy and electrocardiography. Membership in Health Occupations Students of America (HOSA) will offer national and state leadership opportunities for students.

**MICROSOFT TECHNOLOGY ASSOCIATE (MTA) @ INGRAHAM HS**

*Cross credited- 3<sup>rd</sup> Year Math (Applied Math 2, 3, or 4)  
2 semesters, 1.5 credits per semester*

This is the first step in the Microsoft Technology Certification Series. MTA is a recommended prerequisite to MCTS (Microsoft Certified Technology Specialist) exams. One certification is earned for each exam passed. IT Pro, Developer, and Data Base are the three certification areas and students will start with networking fundamentals and software development fundamentals first semester. Second semester will include Windows Development Fundamentals and Web Development Fundamentals. Recommended prerequisite- Computer Applications or Exploring Computer Science.