

2019-20 Eisenhower High School  
Course Catalog for Registration



**ENGLISH**

Throughout our lives we judge others, and we ourselves are judged by the quality of our communication skills as we speak, write, listen, and read. Thus, is no greater criteria of overall competence than the command of one’s native language. This is especially true in a world of instant communications where cultures and people live in an increasing interdependence. The programs at the high schools focus on those needed competencies for students to interact in their environments whether that be in the home, in post high school educational or complex work settings.

Career Opportunities: All occupations require a knowledge of Basic English. Students who excel in English may be interested in careers such as law, medicine, journalism, English teacher, broadcasting, writer, author, drama, college teacher.

<b><u>GRADE 9</u></b> ENGLISH 9 HONORS ENGLISH 9 ESL LEVEL 1 LANG. ARTS 1 A/B	<b><u>GRADE 10</u></b> ENGLISH 10 HONORS ENGLISH 10 ESL LEVEL 2	<b><u>GRADE 11</u></b> ENGLISH 11 COLLEGE PREP ENGLISH 11 AP ENGLISH LITERATURE IB ENGLISH A1 HL 1A & 1B ESL LEVEL 3	<b><u>GRADE 12</u></b> ENGLISH 12 COLLEGE PREP ENGLISH 12 AP ENGLISH LANGUAGE IB ENGLISH A1 HL 2A & 2B ESL LEVEL 3		
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <b><u>ELECTIVES</u></b>  NEWSPAPER JOURNALISM  JOURNALISMEDITORIALSHIP  LANG. ARTS 2 A/B  MYTHOLOGY  PRE-PRESS YEARBOOK  EDUCATIONAL LITERACY   <b><u>OCCUPATIONAL CREDITS</u></b>  BUSINESS COMMUNCIATIONS  VISUAL ARTS </td> <td style="width: 50%; vertical-align: top;"> <b><u>YV-TECH</u></b>  CRIMINAL JUSTICE  DIGITAL MEDIA </td> </tr> </table>				<b><u>ELECTIVES</u></b> NEWSPAPER JOURNALISM JOURNALISMEDITORIALSHIP LANG. ARTS 2 A/B MYTHOLOGY PRE-PRESS YEARBOOK EDUCATIONAL LITERACY  <b><u>OCCUPATIONAL CREDITS</u></b> BUSINESS COMMUNCIATIONS VISUAL ARTS	<b><u>YV-TECH</u></b> CRIMINAL JUSTICE DIGITAL MEDIA
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**ENR111, ENR112                      ENGLISH 9**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** English

**Prerequisite:** None

This full year course emphasizes improvement in broad general areas of reading (theme, plot, characterization), writing (themes, essay tests, book reports), spelling, literature (novel, short story, poetry), and oral presentations. Supplemental reading assignments will enhance the student's social responsibilities and personal growth.

**ENR151, ENR152                      HONORS ENGLISH 9**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** English

**Prerequisite:** B in English 8

This is an honors course (pre-AP) section for accelerated students. It emphasizes improvement in analysis and annotation of literary terms (imagery, irony, and figurative language) in literature (novels, short stories, poetry, plays). The students learn to express their analysis articulately and effectively through analytical and argumentative writing and oral presentations. Supplemental reading assignments will enhance the student's social responsibilities and personal growth.

**ENR121, ENR122                      ENGLISH AS A SECOND LANGUAGE LEVEL 1**

**1 year, 0.50 credit per semester (may be repeated)**

**School:** Eisenhower

**Requirement Met:** English 9

**Prerequisite:** Placement test

English language instruction for students whose primary language is other than English. This class is for students who have had little or no contact with the English language before. Emphasis will be on conversation skills. This class will satisfy the requirement for English.

**ENS110, ENS111                      LANGUAGE ARTS 1A & 1B**

**1 year, 0.50 credit per semester**

**School:** Davis, Eisenhower, Stanton

**Requirement Met:** English 9

**Prerequisite:** was in MS Read 180 program

Provides instruction in basic language skills, integrating reading, writing, speaking, and listening. Course content depends upon students' abilities and may include vocabulary building, improving spelling and grammar, developing writing and composition skills, reading silently or aloud, and improving listening and comprehension abilities.

**ENR211, ENR212****ENGLISH 10****1 year**, 0.50 credit per semester**School:** Eisenhower**Requirement Met:** English**Prerequisite:** Grade 10

This course features an integrated, yearlong curriculum of multicultural literature, writing, reading, listening, and speaking. The course celebrates diversity and studies culture in the context of literature. Its activities are carefully sequenced with the preceding and succeeding years' curriculum to provide activities for concurrent growth and contextual use of all phases of the English language. Each high school has texts and reading selections which support the theme of multiculturalism and provide the opportunity for students to explore, reflect, and create in a number of communications styles.

**ENR251, ENR252****HONORS ENGLISH 10****1 year**, 0.50 credit per semester**School:** Eisenhower**Requirement Met:** English  
ENR112**Prerequisite:** C in ENR152 or B in

This is an honors course section for accelerated students. It features an integrated, year-long curriculum of literature, writing, reading, listening, and speaking. Its activities are carefully sequenced with the preceding and succeeding years' curriculum to provide activities for concurrent growth and contextual use of all phases of the English language. Supplemental reading assignments will enhance the student's social responsibilities and personal growth.

**ENR124, ENR125****ENGLISH AS A SECOND LANGUAGE LEVEL 2****1 year**, 0.50 credit per semester**School:** Davis, Eisenhower**Requirement Met:** English 10**Prerequisite:** Placement test

This class is a continuation of the process and academic concepts begun in Level 1. It is more advanced and is open to students who have successfully completed the essential learning for ESL Level 1 as demonstrated by teacher recommendation or the ESL placement test. This class will satisfy the requirement for English.

**ENR351, ENR352****ENGLISH 11****1 year**, 0.50 credit per semester**School:** Davis, Eisenhower, Stanton**Requirement Met:** English**Prerequisite:** Grade 11

This survey course introduces students to many of the masters of American literature who provide insights into our present value system, further understanding of the techniques used by professional writers, and examines several of the major literary forms. The writing emphasis includes creative writing, essay, technical writing and a formal treatment of a topic using formal research techniques.

**ENR355, ENR356****COLLEGE PREP ENGLISH 11****1 year**, 0.50 credit per semester**School:** Eisenhower**Requirement Met:** English 11**Prerequisite:** B in ENR252 or B in ENR212

A full year English class for college bound students surveys American literature from its beginnings in Native American oral literature through modern literature. Students read major American authors through the entire span of American literature and explore the history and philosophies that inspired the writers. Students read a variety of genre including non-fiction, short stories, novels, poetry and drama. Writing focuses on response essays and research. This course encourages college bound students to expand their reading background, analytical skills and writing experiences.

**ENR458, ENR459****BRIDGE TO COLLEGE ENGLISH 11**  
**College in the High School****1 year**, 0.50 credit per semester**School:** Eisenhower**Requirement Met:** English**Prerequisite:** Juniors who score a 2 on the Smarter Balance 10 Grade Assessment

This course will develop students' college and career readiness by building skills in critical reading, academic writing, speaking and listening, research and inquiry, and language use as defined by the Washington State Learning Standards. By the end of the course, students will use tools for critical reading, argumentative writing, and independent thinking while reading unfamiliar texts and responding to them in discussion and writing.

**ENR461, ENR462****AP ENGLISH LITERATURE****1 year**, 0.50 credit per semester**School:** Eisenhower**Requirement Met:** English 11**Prerequisite:** B in ENR352 or B in ENR362

This course is intended to give you the experience of a typical introductory college literature course. The AP English Literature and Composition course is designed to engage students in the careful reading and critical analysis of imaginative/fiction literature (novel, drama, short story, poetry). Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and enjoyment for their readers. As they read, students should 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. Reading includes intensive study of representative works from various genres, periods, and cultures, concentrating on works of recognized literary merit. Writing assignments in the course will address the critical analysis of literature and will include expository, analytical, and argumentative essays.

**ENR127, ENR128****ENGLISH AS A SECOND LANGUAGE LEVEL 3****1 year**, 0.50 credit per semester**School:** Davis, Eisenhower, Stanton**Requirement Met:** English 11, English 12**Prerequisite:** Placement test

This class is a continuation of the processes and academic concepts begun in Level 2. It is more advanced and is open to students who have successfully completed the essential learning for ESL level 2 as demonstrated by teacher recommendation or the ESL placement test. This class will satisfy the requirement for English.

**ENR451, ENR452****ENGLISH 12****1 year**, 0.50 credit per semester  
Eisenhower, Stanton**School:** Davis,**Requirement Met:** English  
Grade 12**Prerequisite:**

Modern Literature: This course is designed to emphasize literacy skills. Basic literary terminology, types, and themes will be explored. The major areas of study will include short story, novel, drama, fiction and poetry. The aim is to provide a comprehensive look at the major modern literary forms for the student's future courses and life. World authors will be emphasized.

**ENR455, ENR456****COLLEGE PREP ENGLISH 12****1 year**, 0.50 credit per semester**School:** Eisenhower**Requirement Met:** English**Prerequisite:** B in ENR352 or B in ENR362

A full year English class for college bound students surveys English literature through modern British literature. Students read major British authors through the entire span of English literature and explore the history and philosophies that inspired the authors. They read a wide variety of genre including non-fiction, short stories, novels, poetry and drama. Writing focuses on essays, research, position papers and literary experiences, analytical essays and writing experiences.

**ENR458, ENR459****BRIDGE TO COLLEGE ENGLISH 12****College in the High School****1 year**, 0.50 credit per semester**School:** Eisenhower**Requirement Met:** English**Prerequisite:** Seniors who score a 2 on the Smarter Balance 11 Grade Assessment

This course will develop students' college and career readiness by building skills in critical reading, academic writing, speaking and listening, research and inquiry, and language use as defined by the Washington State Learning Standards. By the end of the course, students will use tools for critical reading, argumentative writing, and independent thinking while reading unfamiliar texts and responding to them in discussion and writing.

**ENR361, ENR362****AP ENGLISH LANGUAGE****1 year**, 0.50 credit per semester**School:** Eisenhower**Requirement Met:** English 12**Prerequisite:** B in ENR252 or B in ENR212

This course is designed to be the equivalent of a first-year college-level writing course (English 101). Learn about the elements that define effective argument and composition through the critical analysis and interpretation of complex texts. Strengthen the effectiveness of your writing through close reading and frequent practice at applying rhetorical strategies, analyzing information from source texts, and writing arguments. Become a critical reader of predominantly nonfiction works, including expository, argumentative, analytical, and personal texts from various authors and time periods.

**ENR464, ENR465**  
**School**

**EDUCATIONAL LITERACY**

**College in the High**

**1 year**, 0.50 credit per semester      **School:** Eisenhower **Requirement**

**Met:** English 12, Elective      **Prerequisite:** None

This elective provides students interested in literacy and educational access the opportunity to study emerging trends in public education, with a particular focus on emerging literacies. A fieldwork component in the second semester enables students to observe and participate in elementary/middle schools in the district.

**ENJ311**

**NEWSPAPER JOURNALISM**

FIVE-STAR JOURNAL (E)

**1 year**, 0.50 credit per semester

**School:** Eisenhower

**Requirement Met:** Elective, Occupational  
English 9

**Prerequisite:** B in English,

The newspaper class gives students practical experience in the production of the school newspaper. Students work in all phases of journalism including writing, layout, photography, and advertising.

**ENJ321**

**JOURNALISM EDITORIALSHIP**

**1 semester**, 0.50 credit

**School:** Eisenhower

**Requirement Met:** Elective

**Prerequisite:** ENJ311 or ENJ314

An independent study course for the editors of the school newspaper and/or yearbook.

**ENS 210, ENS211****LANGUAGE ARTS 2A & 2B**

1 year, 0.50 credit per semester

**School:** Eisenhower

**Requirement Met:** English Elective

**Prerequisite:** ENS111

A continuation of learning in the READ 180 program.

**TEG104, TEG105 (Not Sure Code for English)****PREPRESS/YEARBOOK**

1 year, 0.50 credit per semester

**School:** Eisenhower

**Requirement Met:** Occupational, 1.0 Fine Arts cr., 1.0 PE cr. **Prerequisite:** None

**English credit available for the following courses.**

(Turn to the CTE section for the course description.)

- BUSINESS COMMUNICATIONS

(Turn to the YV-TECH section for these course descriptions.)

- CRIMINAL JUSTICE
- DIGITAL MEDIA

## **PE/ Health**

**PHE100, PHE101****GENERAL PE**

1 semester, 0.50 credit

**School:** Eisenhower

**Requirement Met:** Fitness

**Prerequisite:** None

This course number is listed on the transcript. The goal of the Eisenhower High School Health & Fitness Department is to help our students grow into well-rounded, happy, healthy, skilled, and productive citizens. Our objective is to develop students physically, mentally and socially by providing a wide variety of activities. These activities will focus on skill development, team concepts, rules of the activity, an understanding of one's own physical abilities, knowledge of the importance of health and fitness as well as the pleasures derived from the many recreational activities available.

## **PHE116**

## **HEALTH**

1 semester, 0.50 credit

**School:** Eisenhower

**Requirement Met:** Health

**Prerequisite:** None

Health is a course designed to present current information to students and enable them to make intelligent decisions concerning their physical, mental and social health. Units covered in the class include mental health (including self-concept and decision-making), nutrition, fitness, substance abuse, stress, communicable diseases, AIDS, and human sexuality.

## **Library TA**

1 semester, 0.50 credit

**School:** Eisenhower

**Requirement Met:** Elective

**Prerequisite:** Juniors and Seniors only

Library Teaching Assistants help students and staff in the library and are friendly and approachable.

Duties include checking out books, shelving, textbook assistance, and general library help.

Library TAs share their love of books and computer skills with others.

This job can prepare students for work at the public library or a university library for work study.

## CTE

### **TEG204, TEG205                      COMMERCIAL ART AND ADVERTISING 1**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** Occupational, CTE 1.0 Fine Arts cr.

**Prerequisite:**

NONE

Are you interested in art, design and how it colors the world around you? We see the creative work of commercial artists everywhere in the world around us, in posters, magazines, signage, digital advertising, even the clothes that you wear. The skills you learn in this class can be applied to any career, in the reports and papers you need to produce. Learn how to do layouts that are interesting and visually appealing. This course includes areas in the field of commercial art related to illustration, cover design, lettering, layout, magazine illustration, and container design. No prerequisites required, but basic computer skills are a plus. Student will be working with traditional art styles, and learning how to translate ideas into a digital environment. They will be using the Adobe suite programs, such as Illustrator, Photoshop, and InDesign. This course is very useful for students developing a culminating project.

### **TED211, TED212                      ARCHITECTURAL DRAFTING**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** Occup., Fine Arts, 1.0 Geom. or 3rd yr. math **Prerequisite:** TED105

Students will learn the creation of technical drawings for the architectural industry using Computer Aided Design (CAD) software. Building on the skills learned in “Engineering Graphics,” students will learn how to create and design industry standard architectural drawings including green building standards. Students will also learn the visual arts standards as they relate to building design. This advanced course is recommended for students interested in any of the wide variety of fast growing design and architectural careers, including architecture, architectural design, civil engineering, and landscape architecture.

### **TET104, TET105                      ROBOTICS FOUNDATION**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** Occupational

**Prerequisite:** None

Explore technology systems and manufacturing processes - Students design and build automated systems that incorporate the principles of robotics, electronics, and physics. This is a rapidly changing field with advances in computing constantly opening up new possibilities for robotics applications. Become knowledgeable in this field as it expands more and more into everyday life.

### **Intro to Health Careers**

Intro to Health Careers provides an overview of the basics of the health care environment and a specific overview of the most popular health careers. This valuable information will aid students



**TEC231, TEC232****COMMERCIAL PHOTOGRAPHY 1****1 year, 0.50 credit per semester****School: Davis, Eisenhower****Requirement Met:** Occupational, CTE Fine Arts**Prerequisite:** TEC111

Are you looking to develop your personal style of photography? Students will refine their skills by exploring professional photographers' work and alternative techniques. They will continue to develop their expertise in color photography, studio lighting, and computer skills. Students will integrate critiques that connect professional work to personal work. This course focuses on the skills needed for a career in the commercial photographic field as well as continuing to build one's personal portfolio. Students will work professionally, seek commissions from clients, learn business basics and build a professional print and electronic portfolio. They will also work around a personal theme and exhibit a display in the community.

**TEC331, TEC332****COMMERCIAL PHOTOGRAPHY 2****1 year, 0.50 credit per semester****School: Eisenhower****Requirement Met:** Occupational, 1.0 Fine Arts cr.**Prerequisite:** TEC232

An advanced section for Commercial Photography that includes study of portrait lighting and Commercial product lighting. Extensive study of continuous and strobe lighting utilizing many of the light modifiers used in the industry today. Commercial brochure layout and design are explored using the most current Adobe imaging Suite. This course emphasizes how to generate income from the many different facets of photography. Students are encouraged to use their photographic skills to compete at regional, state and nationwide photographic competitions. By the end of this course, students will understand copyright issues and the importance of good business practices.

**THEATRE DESIGN & STAGE TECHNOLOGY 1**

Students will learn the fundamentals of theatre production with an emphasis on design. Students will acquire knowledge of the inner workings of live show production in the theatre and gain confidence needed to organize and produce staged presentations. Projects include the building a set design model, costume construction, makeup design, and mask and puppet construction. Students will have the opportunity to become involved in production of stage productions and school events.

**TECHNICAL THEATRE LAB**

Students will be directly involved with event production within the school. Students will also be directly involved with theatre productions by stage managing, engineering and operation of the sound and lighting systems, set design and construction, prop building, painting, maintaining and organizing of event facilities. Students will also provide technical support for school assemblies and special events. Students may also provide technical support for and around the community. Requires passing grade in Theatre Design 1 or teacher approval.

## **VIDEO ANNOUNCEMENTS/VIDEO FOUNDATIONS**

Students will produce Video Announcement episodes highlighting student life at Eisenhower. They will learn technical skills to produce videos as they relate to production. The student will acquire skills to work with sound, lighting, camera operations, and studio and field productions. This course also includes related computer applications. Requires teacher approval and/or an interview with instructor prior to enrolling.

## **CINEMA PRODUCTION**

Students will learn film theory and production techniques in cinema. With film theory study including mise-en-scene, cinematography, editing and sound. Students will demonstrate their knowledge when they write, produce and edit their own short films in various genres throughout the yearlong course.

### **CTE course descriptions for Food Science classes at Eisenhower High School:**

#### **HFL250**

#### **FOOD SCIENCE A**

**0.50 credit per semester**

**School: Eisenhower**

**Requirement Met:** Occupational .50 Algebra 1 cr., 1.0 Lab Sci. cr. **Prerequisite: None**

Grades: 10-12

Course is designed to help students learn about the relationships between science, food, and nutrition. Basic laws of chemistry, microbiology, physics, and government legislation are applied to the production, processing, preservation, and packaging of food. Though cooking and the making food lab products, science will be applied and used to understand science principles and concepts. Students will have the opportunity to take the test to earn their Washington State Food Handlers Permit in class.

#### **HFL251**

#### **FOOD SCIENCE B**

**0.50 credit per semester**

**School: Eisenhower**

**Requirement Met:** Occupational .50 Algebra 1 cr., 1.0 Lab Sci. cr. **Prerequisite: Food Science A**

Grades: 10-12

Course is designed as the next class in the Food Science Curriculum. Students will continue to learn how science principles and concepts from the subjects of Chemistry, Biology, Physical Science, and Physics are applied in cooking and preparation of Food. In the food labs, experiments will be conducted where science will be applied to production and making of food products. Students will have the opportunity to take the test to earn their Washington State Food Handlers Permit in class.

**BUS334, BUS335 FINANCIAL FITNESS****1 year**, 0.50 credit per semester**School:** Eisenhower**Requirement Met:** Occup., 1.0 Algebra 1 cr., or 3rd yr math**Prerequisite:** Grades 10-12

Financial Fitness will benefit students in business and personal money management. This class will help students make informed decisions on money, savings, investing, credit, debit and risk management. This includes a personal financial plan in goods, services and insurance. The personal focus of this course is to make it relevant to those just starting down the path to personal financial independence.

**HFL231****CHILD CARE LAB 1****College Credit Available****HFL322****CHILD CARE LAB 2****College Credit Available****1 semester**, 0.50 credit**School:** Eisenhower**Requirement Met:** Occupational**Prerequisite:** HFL242 or HFL243, in GRADS

This lab course focuses on the provision and management of child care services and prepares individuals to plan, design, and manage child care facilities and programs that meet children's developmental needs and interests and that provide safe and healthy environments. Student will work in the schools child care center as part of this lab course.

**HFL242, HFL243****CHILD DEVELOPMENT****College Credit Available****1 year**, 0.50 credit per semester**School:** Eisenhower**Requirement Met:** Occupational**Prerequisite:** None

An opportunity to work with young children while learning child development and basic child psychology. Course designed to help students understand why children behave as they do, to provide alternative methods of guiding children's development, to assist in self-understanding and acceptance to learn parenting skills, and to explore related careers. Students will interact with young children.

**TEM242, TEM243****SMALL ENGINES/AUTO UP KEEP****1 year**, 0.50 credit per semester**School:** Eisenhower**Requirement Met:** Occupational**Prerequisite:** None,

Students will learn mechanical and electrical fundamentals in engine technologies. The student will acquire skills to repair and maintenance of small engines such as lawn mowers, snow blowers and lots of "in-shop" experience. Student interested in learning about automotive care will learn basic auto care. Student will learn how to perform auto service and maintenance, basic tune-up, check brakes, batteries, change tires, etc., as well as things to check when your car breaks down.

**TEM211,TEM212**                      **WELDING TECH 1**                      **College Credit**  
**Available**

**1 year**, 0.50 credit per semester

**School:** Eisenhower

**Requirement Met:** Occupational, .50 Geometry cr.

**Prerequisite:** None

Student will learn safety and operating procedures and characteristics of oxyacetylene, arc, and MIG wilding equipment. Student will know and be able to develop skills in welding and compete several hands on projects to gain welding techniques.

**TEM311,TEM312**                      **WELDING TECH 2**                      **College Credit**  
**Available**

**1 year**, 0.50 credit per semester

**School:** Eisenhower

**Requirement Met:** Occupational, **.50 Geometry cr.**

**Prerequisite:** TEM212

Students will continue from Welding Tech 1 with advanced techniques.

**TEW313**                      **WORK-BASED LEARNING SKILLED & TECHNICAL SCIENCE**

**1 year**, 0.50 credit per semester

**School:** Eisenhower

**Requirement Met:** Occupational

**Prerequisite:** Semester of TEM or TEW class

Students will have opportunities to apply learned skills in real work settings. Students choose the learning experience based on their career interests and goals. Students are required to complete 90 hours for 0.5 credit. Required student seminars assist students in developing those skills identified by business and industry as being essential to successful employment. Students must have good attendance and citizenship.

**TED104, TED105**                      **ENGINEERING GRAPHICS/CAD**                      **College Credit**  
**Available**

**1 year**, 0.50 credit per semester

**School:** Eisenhower

**Requirement Met:** Occup., 1.0 Geometry or 3rd yr math cr. **Prerequisite:** None

Students will learn the basics of sketching, lettering, mechanical drafting and CAD. In this class, students will use computer drafting software to learn the basics of computer-based drafting. After completing basic exercises that will emphasize drafting technical skills, the students will then advance to more complex drawing and assignments that emphasize design concepts and 3-D modeling. This introductory level course is recommended for students

interested in any of the wide variety of fast growing design and engineering careers, including architecture, fashion design, aerospace and civil engineering and landscape architecture.

**TGD101, TGD102                      VIDEO GAME DESIGN & ANIMATION**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** Occup., Fine Arts, 3rd yr. math

**Prerequisite:** NONE

A course that focuses on the students create video games using trigonometry and higher math, art concepts, computer programming in C++, as well as 2D and 3D animation. The course prepares students for career as video game programmers and animation artists. Students will learn general writing and implementation of generic and customized code to drive operating systems and generally prepares individuals to apply the methods and procedures of game design and programming to software. Includes instruction in software design, low and high-level languages, animation and program writing; program customizing and linking; prototype testing; troubleshooting; and related aspects of video game design.

**TED204, TED205**

**MECHANICAL DRAFTING**

**College Credit**

**Available**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** Occup., .50 Geom. 1 cr., or 3rd yr. math cr. **Prerequisite:** TED105

Students will learn mechanical drafting by completing basic exercises that will emphasize drafting technical skills. The students will then advance to more complex drawing and assignments.

**TED211, TED212**

**ARCHITECTURAL DRAFTING**

**College Credit**

**Available**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** Occupational, Fine Art, or third year math cr.

**Prerequisite:** TED105

Students will learn mechanical drafting by completing basic exercises that will emphasize drafting technical skills. The students will then advance to more complex drawing and assignments.

**TET104, TET105**

**ROBOTICS FOUNDATION**

**1 year**, 0.50 credit per semester

**School:** Eisenhower

**Requirement Met:** Occupational

**Prerequisite:** None

Explore technology systems and manufacturing processes - addresses the social and political consequences of technological change. Students design and build automated systems that incorporate the principles of robotics, electronics, and physics. This is a rapidly changing field with advances in computing constantly opening up new possibilities for robotics applications. Become knowledgeable in this field as it expands into the medical, mining and agriculture industries.

**Math**

<p><b><u>ALGEBRA COURSES</u></b>  INTENSIFIED ALGEBRA (BY PLACEMENT)  ALGEBRA 1</p> <p><b><u>GEOMETRY COURSES</u></b>  GEOMETRY  HONORS GEOMETRY</p> <p><b><u>ALGEBRA 2 COURSES</u></b>  ALGEBRA 2  HONORS ALGEBRA 2</p> <p><b><u>MATH OPTIONS AFTER TAKING ALGEBRA 2 COURSES</u></b>  FUNCTIONS/STATISTICS/TRIG.  AP STATISTICS  HONORS PRE-CALCULUS  AP CALCULUS</p>	<p><b><u>4<sup>TH</sup> YEAR MATH (SENIOR ONLY)</u></b>  <b><u>OPTIONS</u></b>  BRIDGE TO COLLEGE MATH (SBA LEVEL 2 IN MATH)  MATH COE (BY PLACEMENT)</p> <p><b><u>OCCUPATIONAL 3rd Yr MATH</u></b>  ACCOUNTING  ARCHITECTURAL DRAFTING  ENGINEERING  GRAPHICS/CAD  FINANCE  FINANCIAL FITNESS  FOOD SCIENCE  GAME DESIGN  INTRO TO ENGINEERING DESIGN  MECHANICAL DRAFTING  WELDING TECHNOLOGY  CABINETMAKING</p>	<p><b><u>YV-TECH CREDIT AVAILABLE</u></b>  COMPUTER TECH  CULINARY ARTS  MANAGEMENT  METAL FABRICATION</p>
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**MAT109, MAT110                      INTENSIFIED ALGEBRA**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** MATH

**Prerequisite:** By District Placement

Intensified Algebra is a comprehensive extended-period course that is designed to help students who are one to two years behind in mathematics re-engage as motivated learners and succeed in Algebra 1 within a single academic year. It transforms the teaching of algebra for students who need additional time to understand the mathematics

**MAT121, MAT122                    ALGEBRA 1**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** Math

This course will help students to gain the knowledge and deep understanding of the following algebraic and geometric concepts: Arithmetic and Geometric Sequences; Linear and Exponential Functions; Characteristics of Functions; Linear/Exponential Equations and Inequalities; Systems of Linear/Exponential Equations; Geometric Transformations and Symmetry; Geometric Congruence, Construction and Proofs. The foundations of algebra and its relationship to geometry will be explored with emphasis placed on practical applications to many different fields.

**MAT221, MAT222                    GEOMETRY**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** Math

**Prerequisite:** Algebra 1 or  
Intensified Algebra

This course will help students to gain the knowledge and deep understanding of the following algebraic and geometric concepts: Quadratic Functions and Equations; Function Characteristics and Features; Geometric Figures; Right Triangle Trigonometry; Circles and other Conics.

**MAT151, MAT152                    HONORS GEOMETRY**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** Math

**Prerequisite:** 8<sup>th</sup> grade  
Algebra 1 (Teacher  
Recommendation) or 9<sup>th</sup> grade  
Algebra 1 (Teacher  
Recommendation)

This course will help students to gain the knowledge and deep understanding of the following algebraic and geometric concepts: Quadratic Functions and Equations; Function Characteristics and Features; Geometric Figures; Right Triangle Trigonometry; Circles and other Conics. This course is designed to help students prepare for future AP Math classes in high school.

**MAT321, MAT322                      ALGEBRA 2**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** Math

**Prerequisite:** Geometry

This course will help students to gain the knowledge and deep understanding of the following algebraic and geometric concepts: Functions and their Inverses; Logarithmic Functions; Polynomial Functions; Rational Expressions and Functions; Geometric Modeling; Periodic Behavior Modeling; Trigonometric Functions, Equations and Identities; Function Modeling.

**MAT251, MAT252                      HONORS ALGEBRA 2**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** Math

**Prerequisite:** Honors Geometry (Teacher Recommendation) or Geometry (Teacher Recommendation)

This course will help students to gain the knowledge and deep understanding of the following algebraic and geometric concepts: Functions and their Inverses; Logarithmic Functions; Polynomial Functions; Rational Expressions and Functions; Geometric Modeling; Periodic Behavior Modeling; Trigonometric Functions, Equations and Identities; Function Modeling. This course is designed to help students prepare for future AP Math classes in high school.

**MAT351, MAT352                      HONORS PRE-CALCULUS**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** Math

**Prerequisite:** Honors Algebra 2 (Teacher Recommendation) or Algebra 2 (Teacher Recommendation); or Functions/Stats/Trig (Teacher Recommendation)

This course covers college mathematics is designed for students interested in mathematics or science who wish to complete AP Calculus or a post-secondary education. First semester topics include nonlinear equations and inequalities, polynomial, rational, piece-wise, exponential, logarithmic, and trigonometric functions. Second semester material includes trigonometric identities, conic sections, parametric equations, polar coordinates, vectors, systems of equations, matrices, and limits and derivatives. Access to a computer and/or a

graphing calculator is necessary throughout the course. Upon successful completion, students will be prepared for AP Calculus or any Calculus class throughout the state.

**MAT424, MAT425                      FUNCTIONS/STATISTICS/TRIGONOMETRY**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** Math

**Prerequisite:** Algebra 2

The goal of this course is to present topics from three areas in a unified way to help students prepare for everyday life and future courses in mathematics. This course integrates algebraic and statistical concepts and prepares students for Pre-Calculus or entry level college math. Functions which include; linear, quadratic, logarithmic and trigonometric are extensively explored manually and using the graphing calculator. An introduction to statistical concepts including statistical displays, sampling, and modeling is also studied. Mathematical modeling through labs is also integrated into this course.

**MAT**

**AP STATISTICS**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** Math

**Prerequisite:** Algebra 2 (Teacher Recommendation); Honors Algebra 2 (Teacher Recommendation)

AP Statistics will require students to provide a concise, clear statement of important concepts. Mathematics can make discussions of Statistics concepts, probability, and inference clear and concise. The curriculum has not shied away from using math where they felt that it helped to clarify without intimidating. They have tried to be sensitive to those that are discouraged by equations by also providing verbal descriptions and numerical examples. The course will prepare students to take the AP Stats exam in order to earn college credit in high school.

**\*\*Special Note: You do not need to take Pre-Calculus, or Calculus, in order to take this class.**

**MAT461, MAT462            AP CALCULUS**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** Math

**Prerequisite:** Honors Pre-Calculus  
(Teacher Recommendation)

The purpose of this course is to solidify and strengthen your skills from ALL previous math courses, and to invite you into the world of Calculus. The Advanced Placement Calculus course is equivalent to a first-semester college calculus course covering topics in differential and integral calculus. It enables students to pursue college-level studies while still in high school. It also shows college admission officers that they have sought out the most rigorous courses available to them while in high school. Students will have the opportunity to earn college credit for taking this class, depending on their AP Test score. This course is a rigorous and demanding compilation of problems and topics that will be examined through three avenues to provide understanding. Students will learn connections between solving problems graphically, numerically and algebraically and see how they are related and one can lead to the other.

**MAT427, MAT428            BRIDGE TO COLLEGE MATH**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** MATH

**Prerequisite:** Seniors who score a 2 on the SBA Math test

The course curriculum emphasizes modeling with mathematics and the CCSS Standards for Mathematical Practice. Topics include building and interpreting functions (linear, quadratic & exponential), writing, solving and reasoning with equations and inequalities, and summarizing, representing and interpreting data. The class will prepare you for entry community college/tech school math classes. If you earn at least a “B” in the class, you will automatically be placed into an entry level math class in a community college/tech school without having to take an entry test. Also, passing this class will satisfy the state SBA math test standard.

**MATH COE**

**.5 year, 0.50 credit for the semester**

**School:** Eisenhower

**Requirement Met:** MATH

**Prerequisite:** Seniors who score a 1 on the SBA Math test

The course curriculum emphasizes the CCSS math standards that must be met in order to meet the state standards for graduation. You will submit a portfolio of work that will be scored to see if it meets the CCSS math standards. If the portfolio meets the necessary criteria, it can be used to satisfy the state SBA math test standard.

**Math credit is available for the following courses.** See your counselor.

- ACCOUNTING
- ENGINEERING GRAPHICS/CAD
- FINANCE
- FINANCIAL FITNESS
- FOOD SCIENCE
- GAME DESIGN
- INTRO TO ENGINEERING DESIGN
- MECHANICAL DRAFTING
- WELDING TECHNOLOGY
- CABINETMAKING

(Turn to the YV-TECH section starting on page 44 to read course descriptions for the following courses.)

- COMPUTER TECH
- CULINARY ARTS MANAGEMENT
- METAL FABRICATION

## **Second Languages**

**FLA101, FLA102**

**AMERICAN SIGN LANGUAGE INTERPRETATION 1**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** Occupational, World Language

**Prerequisite:** None

This class is designed to give students the ability to function comfortably in a wide variety of situations within the deaf community. The course is based on the functional-notional approach to learning language. This approach organizes language around communicative purposes of every day interaction. Each of the twelve units in Level 1 revolves around a major language function appropriate to deaf culture; e.g., introducing oneself, asking for and giving information, asking and giving directions, making request, talking about activities, and identifying others by appearance. Through this functional approach taught in interactive contexts, the students learn

the language used in everyday conversation as they develop conversational skills in confirming and correcting information, expressing degrees of uncertainty, and asking for clarification and repetition.

## **FLA201, FLA202                      AMERICAN SIGN LANGUAGE INTERPRETATION 2**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** Occupational, World Language

**Prerequisite:** FLA102

The second year ASL Interpretation class is designed to reinforce learned grammar and vocabulary while adding new vocabulary. Deaf culture will become an added focus of study as students will start to spend more time using their sign language skills while working with the deaf community. The field of sign language interpreting will be explored more, and students will start to spend time with sign language interpreters in a work related situation. This will enforce learned skills and split the class into smaller groups for a better learning environment.

## **FLA301, FLA302                      AMERICAN SIGN LANGUAGE INTERPRETATION 3**

**1 year, 0.50 credit per semester**

**School:** Eisenhower

**Requirement Met:** Occupational, World Language

**Prerequisite:** FLA202

Description: This course is a continuation of ASL 2, expanding the emphasis on grammar, vocabulary development, and deaf culture. Dialogue, short stories, narratives, and short conversation, both receptive and expressive, will be featured through the course.

## **FLF101, FLF102                      FRENCH 1**

**1 year, 0.50 credit per semester**

**School:** Davis, Eisenhower

**Requirement Met:** World Language

**Prerequisite:** None

The main emphasis of first year French will be to develop listening, speaking, reading, and writing skills. Students will learn the present tense as well as basic grammatical structures. Students will learn about different Francophone cultures. Course materials will be supplemented through the use of technology.

## **FLF201, FLF202                      FRENCH 2**

**1 year, 0.50 credit per semester**

**School:** Davis, Eisenhower

**Requirement Met:** World Language

**Prerequisite:** FLF102 or FLF152

Listening, speaking, reading, and writing skills will continue to be stressed and developed. Advanced grammar studies, past tense verbs, and an introduction to literature will give students a solid college preparatory background. Students will learn about different Francophone cultures. Course materials will be supplemented through the use of technology.

FLF301, FLF302

### FRENCH 3

**1 year, 0.50 credit per semester**

**Requirement Met:** World Language

**School:** Davis, Eisenhower

**Prerequisite:** FLF202 or FLF252

Third year French is for students who desire a strong foundation in the language. Listening, speaking, reading, and writing skills will continue to be cultivated. Through the study of literature and advanced grammar, students will have the ability to further develop their skills. Conversational skills will be enhanced through class discussions and projects. Students will learn about different Francophone cultures. Course materials will be supplemented through the use of technology. Students who want a strong college preparatory background will benefit from this course.

**FLS101, FLS102**

### SPANISH 1

**1 year, 0.50 credit per semester**

**Requirement Met:** World Language

**School:** Eisenhower

**Prerequisite:** None

The main emphasis of first year Spanish will be to develop listening, speaking, reading, and writing skills. Students will learn the present tense as well as basic grammatical structures. Students will learn about different Hispanic cultures. Course materials will be supplemented through the use of technology.

**FLS201, FLS202**

### SPANISH 2

**1 year, 0.50 credit per semester**

**Requirement Met:** World Language

**School:** Eisenhower

**Prerequisite:** FLS102 or FLS152

Listening, speaking, reading, and writing skills will continue to be stressed and developed. Advanced grammar studies, past tense verbs, and an introduction to literature will give students a solid college preparatory background. Students will learn about different Hispanic cultures. Course materials will be supplemented through the use of technology.

**FLS231, FLS232**

### NATIVE SPANISH 1

**1 year, 0.50 credit per semester**

**Requirement Met:** World Language

**School:** Eisenhower

**Prerequisite:** Native Spanish Speaker

The main goal for this class is to incorporate the students' native language and cultural background to enhance their knowledge in listening, speaking, reading, and writing of their mother tongue. This course is intended for those students who speak Spanish fluently using Basic Interpersonal Communication Skills (BICS). An emphasis will be placed on developing the student's academic language or Cognitive Academic Language Proficiency (CALP) using formal/academic language. Language will be developed through reading a variety of topics from magazines, newspapers, and literature and will be expected to develop written/oral abilities by researching and presenting a topic, summarizing and journaling. Students who expect to become truly bilingual and bicultural will benefit from this course.

**FLS331, FLS332****NATIVE SPANISH 2**

**1 year**, 0.50 credit per semester

**School:** Eisenhower

**Requirement Met:** World Language

**Prerequisite:** FLS232, FLS242

This course is intended for those students who speak Spanish fluently using Basic Interpersonal Communication Skills (BICS). The students' native language and cultural background will be incorporated to enhance their knowledge in listening, speaking, reading, and writing of their mother tongue. An emphasis will be placed on developing the student's academic language using formal and academic language. Students who expect to become truly bilingual and bicultural will benefit from this course.

**FLS301, FLS302****SPANISH 3**

**1 year**, 0.50 credit per semester

**School:** Eisenhower

**Requirement Met:** World Language

**Prerequisite:** FLS202 or FLS252

Third year Spanish is for students who desire a strong foundation in the language. Listening, speaking, reading, and writing skills will continue to be cultivated. Through the study of literature and advanced grammar, students will have the ability to further develop their skills. Conversational skills will be enhanced through class discussions and projects. Students will learn about different Hispanic cultures. Course materials will be supplemented through the use of technology. Students who want a strong college preparatory background will benefit from this course.

**FLS311, FLS312****AP SPANISH**

**1 year**, 0.50 credit per semester

**School:** Eisenhower

**Requirement Met:** World Language

**Prerequisite:** Department

Permission

This course is designed for students who desire a strong foundation in Spanish by focusing on six broad based themes that provide a meaningful context for the communication task students will face on the AP exam. These six areas include global challenges, science and technology, contemporary life, personal and public identities, families and communities, and beauty and aesthetics. The four domains of listening, speaking, reading, and writing will be further developed through these topics by using authentic sources. Students who desire to continue the study of Spanish at the college level will benefit from this course.

# **Social Studies**

## **WASHINGTON HISTORY**

**1 semester, .5 credit**

### **Prerequisite:**

This class is designed to meet the state graduation requirement. At this level it is designed to be a makeup course for non-passage at the middle school level or for transfer students from outside the state of Washington. Course goals include the study of the physical characteristics of the state, the historical phases of the growth of the Pacific Northwest, and the current social, economic, and political issues of Washington State.

## **HONORS WORLD GEOGRAPHY**

**1 semester, .5 credit**

### **Prerequisite: 9<sup>th</sup> Grade Standing**

The course builds students' essential skills and confidence and helps to prepare them for a range of AP history and social science coursework during high school, including AP World History. The learning model is that of a disciplinary apprenticeship, with students using the tools of the historian and geographer as sources, data, and analytical reading and writing take center stage in the classroom. In this course, a teacher-selected group of students engage in a rigorous study focused on human geography with connections to the environment, economics systems, political structures, and socio-cultural landscapes of the earth.

## **MODERN WORLD HISTORY**

**Full Year, 1 credit**

### **Prerequisite: 10<sup>th</sup> Grade Standing**

This course is a study of the forces, which have shaped the world since approximately 1450. Course emphasis is on the political, economic, social, religious, and scientific ideas that have changed people's thoughts about themselves, their institutions, and their world. Major developments may include the Age of Exploration, Scientific Revolution, Age of Absolutism, Enlightenment, Revolutions (democratic and communist), Colonization, Industrial Revolution,

Imperialism, WWI, and Independence movements. Geography, reading, writing and critical thinking will be emphasized in this course.

## **ADVANCED PLACEMENT WORLD HISTORY**

**Full year, 1 credit**

**Prerequisite: 10<sup>th</sup> grade standing with teacher recommendation**

The goal of the Advanced Placement World History sequence at Eisenhower High School is for the student to successfully complete a college level history course and earn college credit through the official AP examination. The class will be fast-paced with intensive focus on analysis, reasoning, critical thinking, and college level writing skills through the study of political, social, cultural, technological, environmental and economic developments and trends in World History. All students will be encouraged to take the official AP Exam in the spring, but some students may not be able to if they display a lack of sufficient academic performance. However, all students will gain valuable knowledge and abilities if they are serious about achieving success in this course!

## **U.S. HISTORY**

**Full year, 1 credit**

**Prerequisite: 11<sup>th</sup> grade standing**

This course is a survey of American Civics and History from the Colonial Period to the present with an emphasis on the emergence and development of America as a global power. The course begins with a review of the political foundations of our country, the Constitution, and the structure of our government. It then jumps to the 1890's and continues from industrialization to the present. Special emphasis is placed on the political, social, and economic forces that have shaped America and its citizens.

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

**Full year, 1 credit**

**Prerequisite: 11<sup>th</sup> grade standing with teacher recommendation**

The goal of the Advanced Placement U.S. History sequence at Eisenhower High School is for the student to complete a college level history course and earn college credit through the official AP examination. The classes will be fast-paced with intensive focus on both analytical and critical thinking skills through the study of significant events, individuals, developments, and processes in

nine historical periods from approximately 1491 to the present. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places. Students have the opportunity to take the test for the possibility of college credit. All students will gain valuable knowledge and abilities if they are serious about achieving success in this course.

## **PSYCHOLOGY**

**Full Year, 1 credit Elective**

**Prerequisite: 11<sup>th</sup> or 12<sup>th</sup> Grade Standing**

This course addresses the basic concepts and components that make up the social science of psychology. This includes units on sensation and perception, the brain, nervous system and behavior, personality, abnormal behavior, stress and health, consciousness and sleep, and memory and thinking. All areas focus on how the concepts interact with each other and how the student may apply those same concepts in their own lives. Classroom interaction, demonstrations, student presentations, and journal writing are also part of the class.

## **ADVANCED PLACEMENT PSYCHOLOGY**

**Full Year, 1 credit elective**

**Prerequisite: 11<sup>th</sup> or 12<sup>th</sup> Grade Standing**

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice.

## **CIVICS**

**1 Semester, .5 credit**

**Prerequisite: 12<sup>th</sup> Grade Standing**

Students will understand and apply knowledge of government, law, politics, and the nation's fundamental documents, including but not limited to the Constitution and Declaration of Independence. Students will learn to make educated decisions about local, state, national, and

international issues and demonstrate thoughtful and participatory citizenship. One focus of the course will be the complex interaction between the common good and individuals' rights.

## **ECONOMICS**

**1 semester, .5 credit**

**Prerequisite: 12<sup>th</sup> Grade Standing**

This course will start at the micro-economic level to teach fundamental economic concepts associated with personal finance. Students will build upon that understanding, moving outward toward the macro-economic level. Students will learn about city, state, national, and finally global economic concepts. Such concepts include basic economic principles: government budgets, local, state, and national economies, trade, and globalization. Students will become familiar with a vocabulary to help them understand the political and economic world around them.

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

**Full Year, 1 credit**

**Prerequisite: 12<sup>th</sup> grade standing with teacher recommendation**

AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behaviors. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they will complete a political science research or applied civics project.

## **Science**

### **A.P. CHEMISTRY**

**1 year, 0.50 credit per semester.  
Requirement Met: Lab Science**

**School: Eisenhower  
Prerequisite: Chemistry, Algebra II**

This yearlong AP Chemistry course is approved and certified by the College Board. It is intended to be the equivalent of a college level general chemistry course. Students will cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics in: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermochemistry, and equilibrium. College credit may be earned by successfully completing the advanced placement exam. This course is also approved to be used toward the achievement of an AP Diploma.

### **HONORS CHEMISTRY**

**1 year**, 0.50 credit per semester.

**School:** Eisenhower

**Requirement Met:** Lab Science

**Prerequisite:** Algebra I

This course covers the common elements of the periodic system, their structure, interactions, and energy relationships. Laboratory activities include quantitative analysis of chemical reactions and their energy. Chemistry is a sequential college preparatory discipline that requires strong mathematics skills and allows students the opportunity to build problem solving and analytical thinking skills. This course is designed to complement and prepare students for AP Chemistry.

**SCC311, SCC312**

### **CHEMISTRY**

**1 year**, 0.50 credit per semester

**School:** Eisenhower

**Requirement Met:** Lab Science

**Prerequisite:** None

Chemistry is a laboratory, problem-solving course which deals mainly with the chemical elements, their structure, and behavior toward one another. It deals with the study of matter its structure, properties and composition, and the changes that matter undergoes based on predictable relationships of cause and effect. The course has strong vocational recommendations for persons interested in studying further biology, medicine, pharmacy, dentistry, nursing, family and consumer sciences, engineering or law agriculture, plastics, and other technologies.

### **SCC400 College in High School- Chemistry**

**College Credit Available**

**Prerequisite:** *Algebra 1&2 (University's Math 96) or equivalent*

**Course Duration:** 1 year course

**School:** Eisenhower

CHS course description that matches with University's Introduction to chemistry for chemistry major and non-major. It includes lab too.

Course description and prerequisites: Introduction to basic concepts of chemistry is one full year course. It includes matter and measurement, properties, atomic theory, atomic structure, periodicity, chemical bonding, solutions & mole concept, gas laws acids/ bases, P<sup>H</sup> neutralization equations and calculations, and nuclear radiation (Optional).

### **TEA101, TEA102**

### **PRINCIPLES OF BIOMEDICAL SCIENCES**

**College Credit Available**

**1 year, 1 credit**

**Requirement Met:** Occupational, Lab Sci.

**School:** Eisenhower

**Prerequisite:** None

In this Project Lead the Way course, students are engaged in a project and problem-based program to investigate the death of Anna Garcia. Throughout the course, students conduct a forensic investigation along with exploring a number of health conditions that may have contributed to Anna Garcia's death. Health conditions explored include diabetes, heart disease, sickle cell anemia, and infectious diseases. This course prepares students for further education and training in a variety of careers associated with the Biomedical Sciences such as physician, nurse, veterinarian, research scientist, pharmacist, lab or pharmacy technician, bioengineer, and physical therapist.

### **SCS420, SCS421**

### **AP ENVIRONMENTAL SCIENCE**

**College Credit Available**

**1 year, 0.50 credits per semester**

**Requirement Met:** Occupational, Lab Science

**School:** Eisenhower

**Prerequisite:** Biology

In this interdisciplinary survey course, students engage in problem and project based learning to develop an understanding of and apply scientific principles, concepts, and methodologies related to our natural world and to critically think about environmental issues and potential solutions. Topics covered include earth systems and resources, the living world, populations, land and water use, energy resources and consumption, pollution, and global change. This course prepares students for further education and training in wide variety careers including agriculture, engineering, public relations, business, health sciences, geosciences, community activism, research science, and law. Students will have an opportunity to take the AP Environmental Science exam, which may be used toward achievement of an AP Diploma.

### **SMS101, SMS102**

### **MATERIALS SCIENCE**

**1 year, 0.50 credits per semester**

**Requirement Met:** Occupational, 1.0 Lab Sci. cr.

**School:** Eisenhower

**Prerequisite:** NONE

This course provides students with an innovative, hand-on experience that incorporates exciting labs and projects that includes making and fabricating objects using polymers, metals, ceramics, plastics, and composites. Students will explore skills used in industry such as 3D printing, laser engraving, 3D modeling, welding, mill-working, composite layup, polymer synthesis and foundry work.

**SCP501/SCP502                      AP PHYSICS 1**

**1 year, 0.50 credit per semester**

**Requirement Met:** Science  
enrolled

**School:** Eisenhower

**Prerequisite:** MAT321 or currently

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion), work, energy and power, mechanical waves, sound, and introductory simple circuits.

**SCP521/SCP522                      AP PHYSICS 2**

**1 year, 0.50 credit per semester**

**Requirement Met:** Science  
currently enrolled

**School:** Eisenhower

**Prerequisite:** AP Physics 1, MAT321 or

AP Physics 2 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as fluid dynamics, thermodynamics with kinetic theory, electrostatics, electric circuits, magnetism and electromagnetic induction, optics, and atomic and nuclear physics.

**SCA111, SCA112                      PHYSICAL SCIENCE**

**1 year, 0.50 credit per semester**

**Requirement Met:** Lab Science

**School:** Eisenhower

**Prerequisite:** None

This course is a study of matter and energy, emphasizing every day applications of physical laws. Students will learn that most technological advances are applications of basic physical science principle. Emphasis is placed on an integration of physical and earth/space science. The student will study laws of matter and energy, structure of matter, the properties of light and sound, motion and energy, followed by exploring earth and space, and environmental influences.

**SCB211, SCB212                      BIOLOGY**

**1 year, 0.50 credit per semester**

**School:** Davis, Eisenhower

**Requirement Met:** Lab Science

**Prerequisite:** SCA112 or SCA152

This course features a year-long curriculum in life science emphasizing: cell biology, genetics, plant and animal classification and anatomy, ecology, evolution, and human biology.

### **SCS 401, SCS402 Human Anatomy and Physiology (College in the Classroom)**

**Prerequisite:** Biology and Chemistry  
12<sup>th</sup> Grade (Instructor's Signature Required)

**High School Credit:** 1.0 Credit

**College Credit:** 5-semester credits are available through Heritage University

**Course Duration:** 2-semesters

This class is designed to provide a fundamental background for students who plan on entering the medical field or are planning on taking upper level college and anatomy/physiology courses. Course content includes anatomical prefixes/suffixes, axial and appendicular skeletal system, skeletal muscles, joints & ligaments, cardiovascular system, respiratory system, central nervous system, and digestive system. Mammalian and specific organ dissection are an integral part of the course.

### **SCB251, SCB252 Honors Biology**

**Prerequisite:** A/B in Physical Science

**High School Credit:** 1.0 Credit

**Course Duration:** 2-semesters

This course is designed to provide the motivated student with a strong background in the three elements (cell, gene and evolution) of a general biology course. Students will explore the above elements in depth and enhance their understanding with extensive labs that included dissection of common species.

Extensive use of the *claim, evidence & reasoning* model will be used to provide students with a greater understanding on the natural world.

**TEA301, TEA302**  
**Available**

**SPORTS MEDICINE 1**

**College Credit**

**1 year**, 0.50 credit per semester

**School:** Eisenhower

**Requirement Met:** Occupational or Science Elective

**Prerequisite:** None

This program will combine course work with practical hands-on applications to prepare students to be employed as an assistant in any health care career area. Skills developed in the program will include knowledge of fitness programs for individuals and groups, health and fitness instruction, nutrition, anatomy and physiology, strength training, first aid/CPR care and athletic injury prevention. The Sports Medicine, Athletic Trainer and Health/Fitness Assistant program is a two-year program with each year consisting 180 hours of classroom instruction and 180 hours of supervised clinical application in the area of health care.

**TEA401, TEA402**  
**Available**

**SPORTS MEDICINE 2**

**College Credit**

**1 year**, 0.50 credit per semester

**School:** Eisenhower

**Requirement Met:** Occupational or Science Elective

**Prerequisite:** TEA302

The sports medicine athletic trainer and health fitness assistant program will combine course work with practical hands-on applications to prepare students to be employed as an assistant in various health care career areas.

Skills developed in the program will include knowledge of fitness programs for individuals and groups, health and fitness instruction, medical/legal issues, anatomy and physiology, strength training, and athletic injury prevention, evaluation, and rehabilitation. The sports medicine, athletic trainer and health fitness assistant program is a two year program consisting of 180 hours each year.

**TEA411**  
**Available**

**SPORTS MEDICINE PRACTICUM**

**College Credit**

**1 semester**, 0.50 credit

**School:** Eisenhower

**Requirement Met:** Occupational

**Prerequisite:** TEA301

Second year Sports Medicine students, in addition to the classroom component, will complete a 20-hour internship in a health club/ fitness center, physical therapy/rehabilitation setting, or another related health care field.

