



# 2022-23 University High School Course Catalog



[Art Department](#)

[BACC](#)

[Business Department](#)

[Engineering Technology Department](#)

[English Department](#)

[World Language Department](#)

[Mathematics Department](#)

[Music Department](#)

[Non-Traditional Coursework](#)

[Physical, Health, & Driver Ed Department](#)

[Science Department](#)

[Social Science Department](#)

---

## Art Department

---

### Art Fundamentals

**AR101/AR102**

Lab Fee: \$50.00 per semester

This course is designed to introduce students to the elements of art and principles of design, as they relate to visual composition. This study is approached predominantly through exercise (i.e., hands-on experience), discussion, and analysis. Students will be exposed to a variety of art movements as well as art media. These media include pencil, colored pencil, charcoal, chalk, ink, acrylic and watercolor painting, and other assorted media suitable for working in a two-dimensional format.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 9-11

**COREQUISITES:** If you take this course, it is recommended you also take AR102 - Art Fundamentals (Sem 2)

### Ceramics

**AR212**

Lab Fee: \$50.00

A one-semester studio course designed to develop skill in working with basic clay construction methods both by hand and on the potters wheel, and exploration of various surface treatments of clayware and firing controls. Study will be approached through history, analysis, discussion, and hands on experiences.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 10-12

**PREREQUISITE:** AR101 – Art Fundamentals (Sem 1) **or** AR102 – ART Fundamentals (Sem 2)

### Art Media

**AR213**

Lab Fee: \$50.00

This course is designed to explore the creative use of a variety of art media. Students are encouraged to manipulate art materials and art processes to create personal artworks.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 10-12

**PREREQUISITE:** AR101 – Art Fundamentals Sem 1) **or** AR102 – Art Fundamentals (Sem 2)

### AP Art, General Portfolio

**AR401/AR402**

Lab Fee: \$50.00 per semester

The main objective of Advanced Placement Art is to allow high school students the opportunity of intensive study with a particular medium or subject matter. It is designed to encourage the students to work independently. Students are required to explore design elements within their particular area of interest. College credit is available to students receiving a satisfactory grade on a submitted art portfolio. This course may be repeated for advanced students with teacher approval.

**CREDIT:** 1.0

**TYPE:** Advanced Placement

**GRADE:** 11-12

**PREREQUISITE:** AR101 - Art Fundamentals (Sem 1) **or** AR102 - Art Fundamentals (Sem2) **or** AR201 - Sculpture: A Look at the Third Dimension **or** AR202 - Printmaking **or** AR301 - Art Appreciation (Sem 1) **or** AR302 - Art Appreciation (Sem 2)

**OTHER REQUIREMENTS:** Two years of art and approval of instructor. (may be repeated)

**COREQUISITES:** If you take this course, it is recommended you also take AR402 - AP Art, General Portfolio (Sem 2)

## **Art Appreciation**

**AR301/AR302**

Lab Fee: \$20.00 per semester

This course is a survey of world art development beginning with the prehistoric period and progressing chronologically through to contemporary. Students are introduced to artworks and artist prominent to various historical periods. Influence on their times and the times on the artists are emphasized. Students will also be producing artwork relevant to the period being covered.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 11-12

**COREQUISITES:** If you take this course, it is recommended you also take AR302 - Art Appreciation (Sem 2)

---

## *Business Department*

---

## **Accounting**

**BU301/BU302**

No prerequisite. Open to all students

Accounting is a skill level course that is of value to all students pursuing a background in business, marketing, and management. Students will be acquainted with the fundamental principles and terms of accounting and given the opportunity to apply these principles by solving problems and practice sets, both manually and with the aid of the computer. Students will be given the opportunity to complete multiple real-world simulations throughout the year. The class also provides many opportunities for students to learn about the world of business and our economic system. This course is offered on an alternating year schedule.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 11-12

**COREQUISITES:** If you take this course, it is recommended you also take BU302 - Accounting (Sem 2)

## **Consumer Economics**

**BU205**

Prerequisite: None

This one-semester course is required in order to meet the consumer economics state requirement for graduation. It is directed from a personal finance viewpoint. Areas of emphasis include decision-making, investing, money management, banking and bank services, credit, taxes, insurance, buying an automobile, and obtaining a career. Students will engage in projects using the Internet.

**COURSE NOTE:** Fulfills State Consumer Education Requirement

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 9-12

## **Introduction to Business**

**BU112**

Prerequisite: None

This one semester course will help students develop a personal understanding of the business economy in which we live and work. Several areas of business including accounting, marketing, management, entrepreneurship, economics, technology, ethics and international business will be studied. Other instructional topics include investing, insurance, credit, and taxes. This course will also provide students the opportunity to create, run and operate their own business through class projects and computerized activities.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 9-12

## **Sports and Entertainment Marketing**

**BU206**

In this semester long course, we will explore the exciting world of marketing and advertising through the sports and entertainment spectrum. This course will teach students the ways different companies and products are priced, placed and promoted. We will look at types of promotions, conduct market research through identifying target markets and discuss how to reach that market. We will also teach the types of business ownerships as well as the business plan including the marketing and financial plan. This class will use real world examples specifically from the world of sports and entertainment.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 10-12

## Entrepreneurship

BU310

This one-semester elective business course will focus on the core elements of being a successful entrepreneur. It will be centered around students creating a business plan, which will allow them to get hands on experience as an entrepreneur. Students will gain business insight in regards to the amount of work starting and maintaining a successful business takes, as well as more in-depth working knowledge of all facets of business such as accounting, management, leadership, and marketing.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 11-12

---

## Engineering Technology Department

---

### Computer Aided Design Track

#### Computer-Aided Design

ET111/ET112

Lab Fee: \$10.00 per semester

This course teaches the knowledge and skills needed to develop technical designs and record those designs on paper and on the computer. Major topics covered in the course include precision drawing techniques, 2D drafting, 3D modeling, and architectural design. Individual design projects will make up a large part of the course. Students also will receive significant experience with AutoCAD and other leading software programs. This course is also a prerequisite for several design courses within the Computer Aided Design track.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 9-12

**COREQUISITES:** If you take this course, it is recommended you also take ET112 - Computer-Aided Design (Sem 2)

#### Architectural Design

ET211/ET212

Lab Fee: \$10.00 per semester

Architectural Design is a course designed to introduce students to the basic and advanced fundamentals of residential architecture. Emphasis will be placed on the areas of sketching, basic drawing, floor plan and elevation development, use of Computer Aided Design (AutoCAD), and problem solving. Students will develop plans for a two-car garage, vacation cottage, and a two-story residential home. Building design and construction materials and processes will be introduced and emphasized.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 10-12

**COREQUISITES:** ET111 - Computer-Aided Design (Sem 1) or ET112 - Computer-Aided Design (Sem 2)

**COREQUISITES:** If you take this course, it is recommended you also take ET212 - Architectural Design (Sem 2)

#### Intro to the Skilled Trades

ET245

Lab Fee: \$20.00

This class will explore and experience a variety of the skilled trades. Skill challenges in the areas of carpentry, painting, drywall, tile, electricity, A/V Networking, plumbing, masonry/bricklaying, HVAC and sheet metal are to be expected. Common household building projects and maintenance will be learned and performed as well. Guest speakers, field trips and real-world experiences will be core components of this course.

**CREDIT:** .5

**TYPE:** Regular

**GRADE:** 9-12

#### Computer Science Elective

##### Digital Computing

ET290/ET291

This course is a broad introduction to computer programming in a wide range of fields from science and engineering to business, art, and music. Students will learn to code in multiple formats and explore such areas as app development, music synthesis, and robotics through large-scale creative projects. Other topics will include the basics of networking and internet communication as well as the societal and ethical implications of computer use.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 9-12

## **AP Computer Science**

**ET301/ET302**

Lab Fee: AP Test fee applies

This is an introduction to computer programming using Java. No previous programming experience is required. The course will cover material equivalent to a first-level computing course in college. Depending on time, the courses content will also include other topics of interest to students, such as graphical programming and user interactivity. Students successfully completing the course will be prepared to take the AP Computer Science exam in the spring. Students must have completed Algebra 2/Algebra 2/Trig and will be enrolled in a current math class.

**COURSE NOTE:** Students must have completed Algebra 2/Algebra 2/Trig and will be enrolled in a current math class.

**CREDIT:** 1.0

**TYPE:** Advanced Placement

**GRADE:** 10-12

**PREREQUISITE:** Any Algebra course

**COREQUISITES:** If you take this course, it is recommended you also take ET302 - AP Computer Science (Sem 2)

## **Engineering Technology Track**

### **Introduction to Engineering Technology**

**ET101/ET102**

Lab Fee: \$20.00 per semester

This course is designed to introduce students to the major engineering fields, including civil, mechanical, electrical, and aerospace engineering. Students will learn the basic concepts of each field and put their knowledge into practice with many hands-on projects. Typical projects include wind tunnel testing, computer networking, concrete beam testing, electrical power generation, and the annual Rube Goldberg machine design competition. This course is a prerequisite for several engineering technology track courses.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 9-12

**COREQUISITES:** If you take this course, it is recommended you also take ET102 - Introduction to Engineering Technology (Sem 2)

### **Engine Mechanics**

**ET255**

Fall Semester Lab Fee: \$20.00

Students will learn the major components of automobile engines. They will identify the various parts and learn basic diagnostics and cures to common engine problems. There will be discussion on performance, horsepower, and energy efficiency. Automobile care and maintenance will also be addressed.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 10-12

**PREREQUISITE:** ET101/102

### **Tech Topics**

**ET103**

Lab Fee: \$20.00

This course is designed to explore and discuss past, current and future technologies and how they affect nature, themselves, society and humanity. Students will gain a better understanding of technologies that affect the world in which they live. Key aspects of the class are research, analysis, discussion, debate, and future casting of technologies and current events surrounding those technologies.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 9-12

### **Principles of Technology**

**SC201/SC202**

Lab Fee: \$20.00 per semester

Principles of Technology is a course in applied science that is designed to prepare students more effectively for advances in technology. It blends an understanding of basic science principles with practice in practical applications. Principles of Technology deals with physics concepts as they apply in the four energy systems: mechanical, fluid, thermal, and electrical. Emphasis will also be placed on hands-on activities, creative thinking and problem solving, and having fun learning. Activities include design challenges such as CO2 car design, Rube Goldberg machines and watercraft. Field trips will also be taken to understand these principles first hand.

**COURSE NOTE:** Students must be currently enrolled in Algebra 1 or have already passed it.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 10-12

---

## English Department

---

\*Denotes survey course

### Freshman English

EN101/EN102

Required for graduation

Freshman English is a required survey course for freshmen, which functions as an integral part of the freshman curriculum. The focus of Freshman English is on the development of a broad range of language skills, including critical reading for literature and information, competent writing, speaking, and listening. These skills are developed in the classroom and applied during the completion of a series of interdisciplinary projects, which relate to freshman thematic units. Students read literature which relates to the major themes of Freshman Program, write in response to a variety of rhetorical situations, and develop academic discussion skills.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 9

**COREQUISITES:** If you take this course, you must also take EN102 - Freshman English (Sem 2)

### Argumentation and Debate

EN111

Offered first semester. In this course students learn the principles of argumentation and debate, analyze contemporary problems and issues, research the topics, and organize material for effective oral presentations. Students do in-class debating. Because the students' skills can be further developed and because the issues investigated change, the course may be repeated for credit. This course is offered every year, but only during the fall semester.

**COURSE NOTE:** May be repeated

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 9-12

### Introduction to Dramatic Literature

EN112

Theater is as much a literary art as it is a performing art. Through an exploration of dramatic literature, students enter into a constant exchange of ideas which find its earliest roots in the traditions of the Greeks yet continuing within the relationships built between script and stage today. In this course, students will explore dramatic literature as it is situated within the historical context of the play; this examination of script is done through extensive written and oral critique of the text. Students are expected to effectively analyze a variety of texts, from a variety of genres, to explain how these works are significant to their historical era and what are the implications of the text for modern audiences.

**Credit:** 0.5

**TYPE:** Regular

**GRADE:** 10-12

**PREREQUISITE:** Sophomore standing and basic keyboarding skills

**PREREQUISITE:** EN101 – Freshman English

### Oral Communication

EN205

**REQUIRED** for Graduation. This one-semester required course focuses on the development of Oral Communication skills in one-on-one conversations, group discussions of various sizes, individual and group presentations. Informal and formal presentations will be given by students on informational, persuasive, and debate topics. An emphasis will be placed on the process of writing speeches including outlining and research.

**CREDIT:** 0.5 **TYPE:** Regular **GRADE:** 10

**PREREQUISITE:** EN101 - Freshman English (Sem 1) or EN102 - Freshman English (Sem 2)

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 10

**PREREQUISITE:** EN101 - Freshman English (Sem 1) or EN102 - Freshman English (Sem 2)

### Sophomore Writing

EN215

Required for graduation

Lab Fee: \$10.00

This semester composition course is required for graduation. Building on the elements of the writing process introduced in Freshman English, this class combines expository writing with formal vocabulary study and nonfiction reading. Taught as a

writing workshop in a technology-rich environment, all students use computers as writing tools. Typical units include personal narrative, extended definition, letter writing, essay-test taking, documented essay writing, and research paper writing.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 10

**PREREQUISITE:** EN101 - Freshman English (Sem 1) **or** EN102 - Freshman English (Sem 2)

## **Journalism**

**EN221/EN 222**

Lab Fee: \$25 per semester

Want to get published? Want to write for the school newspaper or yearbook? This publications-based course emphasizes media literacy, role of the press, basic news writing, layout, design, copy, proofreading, photography, and graphics as they relate to the Clarionette newspaper and Clarion yearbook. This course may be repeated for credit, however only one credit can be applied toward the English graduation requirement. Students wishing to become an editor must take the course both junior and senior years.

\*Juniors are recommended to take this course senior year as well

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 11-12

**COREQUISITES:** If you take this course, you must also take EN222 - Journalism (Sem 2)

## **Creative Writing**

**EN231**

Offered first semester. Lab Fee: \$10.00

A one-semester creative writing workshop in which students learn the basics of desktop publishing while producing portfolios of original poetry and prose. In addition to completing individual portfolios, each student will contribute to a class anthology and be encouraged to prepare at least one manuscript for submission to a publishing outlet or writing contest.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 10-12

**PREREQUISITE:** Sophomore standing and basic keyboarding skills

## **Contemporary Literature**

**EN242**

Contemporary Literature is intended for students who enjoy reading and would like to study literature published in the twenty-first century. Students will read a range of novels, poetry, short stories and essays from a diverse group of cutting-edge writers, and the class will frequently hold "book club" style discussions, reflecting upon the themes, style and form of the various reading assignments.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 10-12

**PREREQUISITE:** EN101 - Freshman English (Sem 1) **or** EN102 - Freshman English (Sem 2)

## **Science Fiction and Fantasy**

**EN251**

Offered second semester.

A one-semester literature and discussion course devoted to the study of science fiction and fantasy. The unique characteristics of these genres will be explored through a variety of texts both classic and contemporary. Book list varies, but authors studied include Octavia Butler, Isaac Asimov, Kurt Vonnegut, Ursula K. Le Guin, Neil Gaiman, HG Wells, and Arthur C. Clarke.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 10-12

**PREREQUISITE:** EN101 - Freshman English (Sem 1) **or** EN102 - Freshman English (Sem 2)

## **Introduction to Film**

**EN271**

This course is a single semester overview of film which examines film from a critique perspective. The course will begin with a historical overview of film before transitioning into the major elements of a film and the semester will wrap up with the writing of several major film critique papers. Other topics covered in the course include representation in front of and behind the camera and the evolution of the medium in a digital age.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 10-12

**PREREQUISITE:** EN101 – Freshman English

## **American Literature and Composition**

**EN301/EN302**

Full-Year Survey Course

Recommended for college-bound juniors, this course combines the study of American literature from its beginnings to the present with composition based on the literature. The literature of America is as diverse as the peoples in it, and this course endeavors to cover representative voices including Hansberry, Fitzgerald, Twain, Hurston, the Transcendentalists, and more.

Contemporary novels, essays, short stories, and poetry are examined. We use these texts to explore verbal and written communication strategies, always exploring what insights literature has to offer about how we pursue the American experiment together.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 11-12

**COREQUISITES:** If you take this course, you must also take EN302 - American Literature and Composition (Sem 2)

## **British Literature and Composition**

**EN311/EN 312**

Full-Year Survey Course

Brit Lit is a year-long course focusing on the Hero and Villain archetypes. During the course, we analyze and discuss the evolution of these figures, how they have evolved in literature to reflect our changing times. In order to do this, we read texts like Beowulf, King Arthur, Frankenstein, Pride and Prejudice, and even Harry Potter and James Bond. Students will complete a variety of assessments not limited to essays, but also including visual art, performance, poetry, presentations, and discussions. The ultimate goals of this course are to prepare students for college and the real world, but also to engage them in thoughtful, creative study of some of the most popular figures of our time.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 11-12

**COREQUISITES:** If you take this course, you must also take EN312 - British Literature and Composition (Sem 2)

## **AP English Literature and Composition**

**EN401/EN402**

Lab Fee: AP test fee applies

This course explores what literature has to say about being human. What role can literature play in helping each of us lead a well-examined life? How does literature help us explore how and who we want to be with one another? These are just some of the questions we will ask of the poetry, plays, and novels through the centuries and across geographies and identities. This senior level AP course is designed for college-bound students and consists of intensive work in both critical reading and expository writing. Literature selections, with an emphasis on English language works, both British and American, are organized thematically by such units as Human Anxieties and Inventing the Human in which we read texts such as *Hamlet*, *The Things They Carried*, *The Handmaid's Tale*, *The Road*, *Parable of the Sower*, *Homegoing*, and many more. This is a discussion-based class that emphasizes critical thinking. A College Board Advanced Placement exam is required for those taking the course.

**CREDIT:** 0.5

**TYPE:** Advanced Placement

**GRADE:** 12

**COREQUISITES:** If you take this course, you must also take EN402 - AP English Literature and Composition (Sem 2)

## **AP English Language and Composition**

**EN501/EN502**

Lab Fee: AP test fee applies

This junior level AP course is an intensive expository writing course for college-bound seniors designed to develop advanced writing skills and analytical thinking skills. Students write and revise themes similar to those required in freshman college composition courses. A College Board Advanced Placement exam will be offered to those successfully completing the course.

**CREDIT:** 0.5

**TYPE:** Advanced Placement

**GRADE:** 11

**PREREQUISITE:** EN101 - Freshman English (Sem 1) or EN102 - Freshman English (Sem 2)

## **HCC ENG 101: Critical Reading & Writing (Dual Credit)**

**HCC ENG 101**

Heartland Community College English 101 taught at UHS.

In this course, students will put rhetorical principles into useful cultural practice via researching, designing, creating, and sharing multimodal composition projects that contribute to real academic or career purposes and audiences. Conceptual knowledge of genre, textual control, document design, writer responsibility, and collaboration will be applied as students research academic or career interests. Students will learn and apply both primary and secondary research skills, and will compose projects that successfully employ genre-appropriate reasoning, formats, and structures. Because this is a course in understanding multimodal texts, we read and view widely. We will compare/contrast *A Raisin in the Sun* to contemporary articles about race relations in the United States. We will read and study global crisis and oral history through the novel *World War Z*. This course focuses on the demands of first-year college composition and will treat writing as an act of inquiry and develop a set of critical practices for communicating and arguing effectively. When taken in conjunction with HCC ENG 102, student will receive survey credit for to meet their graduation requirement. HCC ENG 101 is the prerequisite for HCC ENG 102. Students who have successfully completed AP Language will not be allowed to enroll in this course as it duplicates much of the content for that course.

**CREDIT:** 0.5

**TYPE:** Dual Credit

**GRADE:** 11-12

## HCC ENG 102: Multimodal Composition (Dual Credit)

HCC ENG 102

Heartland Community College English 102 taught at UHS.

This course picks up where 101 leaves off, focusing on putting rhetorical principles into useful cultural practice via researching, designing, creating, and sharing multimodal composition projects that contribute to real academic or career purposes and audiences. Conceptual knowledge of genre, textual control, document design, writer responsibility, and collaboration will be applied as students research academic or career interests. Students will learn and apply both primary and secondary research skills, and will compose projects that successfully employ genre-appropriate reasoning, formats, and structures. Students will compose 3 major projects, 2 of which with a total of at least the equivalent of 10 pages (3300 words) in revised form and include multiple sources. This course has replaced Intro to College Composition. When taken in conjunction with HCC ENG 101 (the prerequisite for this course), student will receive survey credit to meet their graduation requirement.)

**CREDIT:** 0.5

**TYPE:** Dual Credit

**GRADE:** 11-12

**PREREQUISITE:** HCC ENG 101: Critical Reading and Writing

---

## World Language Department

---

### French Courses

#### French 1

FL101/FL102

Lab Fee: \$5.00 per semester

This course is for those beginning their study of French or those with minimal experience in French. Emphasis is placed on developing the skills of listening, speaking, reading, and writing in interpersonal, interpretive, and presentational communication. The course introduces basic grammatical structures and vocabulary with limited reading and writing. Students will also learn about a variety of cultures.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 9-12

**COREQUISITES:** If you take this course, you must also take FL102 - French 1 (Sem 2)

#### French 2

FL201/FL202

Lab Fee: \$5.00 per semester

French 2 reinforces and builds upon the knowledge gained in French 1. It will continue to develop the interpersonal, interpretive, and presentational communication goals. These skills include listening, speaking, reading, and writing. The course focuses on mastery of basic grammatical structures, acquisition of functional vocabulary, and cultural awareness and appreciation.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 9-12

**PREREQUISITE:** FL101/102 or equivalent with a recommended grade of "C" or above.

**COREQUISITES:** If you take this course, you must also take FL202 - French 2 (Sem 2)

#### French 3

FL301/FL302

Lab Fee: \$5.00 per semester

French 3 reinforces and builds upon the knowledge gained in French 1 and 2. This course will advance the interpersonal, interpretive, and presentational communication goals. These skills include listening, speaking, reading, and writing. The course will focus on mastery of basic to more complex grammatical structures and expand vocabulary acquisition to more sophisticated terms. Students will further their cultural awareness and appreciation.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 10-12

**PREREQUISITE:** FL201/202 or equivalent with a recommended grade of "C" or above.

**COREQUISITES:** If you take this course, you must also take FL302 - French 3 (Sem 2)

## **French 4**

**FL401/FL402**

Lab Fee: \$5.00 per semester

Emphasis is placed on using higher order thinking skill to analyze literature and culture. Class discussion and participation, conducted in French, are important parts of this class. Grammar is reviewed and new, complex structures are learned. Written composition combines grammar and literary analysis. Foreign films are used as a means to fuel historical and cultural discussion. The class also focuses on improving reading comprehension through literature.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 11-12

**PREREQUISITE:** FL301/302 or equivalent with a recommended grade of “C” or above.

**COREQUISITES:** If you take this course, you must also take FL402 - French 4 (Sem 2)

## **French 5**

**FL501/FL 502**

Lab Fee: \$5.00 per semester:

This class is intended for students who wish to develop their proficiency in all four language skills: listening, speaking, reading, and writing. Students will practice comprehension of formal and informal spoken French. Students will compose essays, read works intended for native speakers, participate in discussions, and give presentations. This course will be conducted only in French and will have major emphasis on culture in order to prepare students for the AP French Language and Culture exam, if they choose to take it.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 12

**PREREQUISITE:** FL 401/402 or equivalent with a recommended grade of “C” or above

**COREQUISITES:** If you take this course, you must also take FL502 - AP French (Sem 2)

## **Mandarin Chinese**

### **Mandarin Chinese 1**

**FL115/FL116**

This introductory course aims for students to achieve linguistic accuracy and conversational competence in the Chinese language. Students will be trained in four language skills: listening, speaking, reading, and writing. The course will emphasize vocabulary building, sentence patterns, and skills that will enable students to talk about simple topics of daily life and to read and write short passages. Students will also be introduced to elements of Chinese culture.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 9-12

### **Mandarin Chinese 2**

**FL117/FL118**

The goal of this course is to develop and advance students' communication competence in four language skills: listening, speaking, reading, and writing. Students will learn about 300 new characters and be able to talk about topics such as school life, restaurants, and shopping using more sophisticated vocabulary and complex sentence patterns. Authentic materials will be used to enrich students' cultural knowledge and experiences.

Recommended a grade of C or above in Mandarin 1

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 9-12

### **Mandarin Chinese 3**

**FL119/FL120**

This course is designed for students who have completed two years of Chinese to continue to develop their skills in listening, speaking, reading, and writing. The course aims to help students solidify their ability to comprehend and produce paragraph-level Chinese and to enable students to understand conversations on familiar topics, to give factual accounts, to read formal materials, and to write simple essays and other types of correspondence.

Recommended a grade of C or above in Mandarin 2

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 9-12

### **HCC Chinese 202**

**FL121/FL122**

Heartland Community College Chinese 202 taught at UHS.

This course is a college-level dual credit class that is designed to help students consolidate their skills in listening, speaking, reading, and writing the Chinese language, through a more thorough development of vocabulary, grammar structures, language usage, and composition of Chinese characters. Students are expected to read and listen skillfully and to develop their oral and written communication abilities in the Chinese language.

Recommended a grade of C or above in Mandarin 3

**CREDIT:** 1.0

**TYPE:** Dual Credit

**GRADE:** 11-12

## Spanish Courses

### Spanish 1

**FL111/FL112**

Lab Fee: \$5.00 per semester:

This course is for those beginning their study of Spanish or those with minimal experience in Spanish. Emphasis is placed on developing the skills of listening, speaking, reading, and writing in interpersonal, interpretive, and presentational communication. The course introduces basic grammatical structures and vocabulary with limited reading and writing.

Students will also learn about a variety of cultures.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 9-12

### Spanish 2

**FL211/FL212**

Lab Fee: \$5.00 per semester:

Spanish 2 reinforces and builds upon the knowledge gained in Spanish 1. It will continue to develop the interpersonal, interpretive, and presentational communication goals. These skills include listening, speaking, reading, and writing. The course focuses on mastery of basic grammatical structures, acquisition of functional vocabulary, and cultural awareness and appreciation.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 9-12

**PREREQUISITE:** FL111/112 or equivalent with a recommended grade of “C” or above

**COREQUISITES:** If you take this course, you must also take FL212 – Spanish 2 (Sem 2)

### Spanish 3

**FL311/FL312**

Lab Fee: \$5.00 per semester:

Spanish 3 reinforces and builds upon the knowledge gained in Spanish 1 and 2. This course will advance the interpersonal, interpretive, and presentational communication goals. These skills include listening, speaking, reading, and writing. The course will focus on mastery of basic to more complex grammatical structures and expand vocabulary acquisition to more sophisticated terms. Students will further their cultural awareness and appreciation.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 10-12

**PREREQUISITE:** FL211/212 or equivalent with a recommended grade of “C” or above

**COREQUISITES:** If you take this course, you must also take FL312 (Sem 2)

### Spanish 4

**FL411/FL412**

Lab Fee: \$5.00 per semester

Emphasis is placed on using higher order thinking skill to analyze literature and culture. Class discussion and participation, conducted in Spanish, are important parts of this class. Grammar is reviewed and new, complex structures are learned. Written composition combines grammar and literary analysis. Foreign films are used as a means to fuel historical and cultural discussion. The class also focuses on improving reading comprehension through literature.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 10-12

**PREREQUISITE:** FL311/312 or equivalent with a recommended grade of “C” or above

**COREQUISITES:** If you take this course, you must also take FL412 (Sem 2)

### Spanish AP

**FL511/FL512**

Lab Fee: \$5.00 per semester:

This class is intended for students who wish to develop their proficiency in all four language skills: listening, speaking, reading, and writing. Students will practice comprehension of formal and informal spoken Spanish. Students will compose essays, read works intended for native speakers, participate in discussions, and give presentations. This course will be conducted only in Spanish and will have major emphasis on culture in order to prepare students for the AP Spanish Language and Culture exam.

**CREDIT:** 1.0

**TYPE:** Advanced Placement

**GRADE:** 11-12

**PREREQUISITE:** FL411/412 or equivalent with a recommended grade of “C” or above

**COREQUISITES:** If you take this course, you must also take FL512 - AP Spanish (Sem 2)

---

## Mathematics Department

---

### Geometry

**MA101/MA102**

Level 1

This course is based on the principles of Euclidean, plane, and solid geometries. Students will be introduced to the basic postulates and theorems of geometry and encouraged to extend these ideas to the topics of similarity, circles, area, volume, and proof. Additional topics include constructions, probability, and basic concepts of algebra.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 9-10

**PREREQUISITE:** Placement based on a student's 8th grade Algebra experience and the ALEKS math score.

**COREQUISITES:** If you take this course, you must also take MA102 - Geometry (Sem 2)

### Accelerated Geometry

**MA111/MA112**

Level 1

This course is based on the principles of Euclidean, plane, and solid geometries. Students will be introduced to the basic postulates and theorems of geometry and encouraged to extend these ideas to the topics of similarity, circles, area, volume, and proof. Additional topics include constructions, probability, and basic concepts of algebra. In addition, students are involved in a more technological, theoretical, and algebraic approach to geometry.

**CREDIT:** 0.5

**TYPE:** Accelerated

**GRADE:** 9-10

**PREREQUISITE:** Placement based on a student's 8th grade Algebra experience and the ALEKS math score.

**COREQUISITES:** If you take this course, you must also take MA112 - Accelerated Geometry (Sem 2)

### Algebra 1+

**MA221/MA222**

Level 2

This course integrates traditional algebra topics with various methods of problem solving. Topics include: sets, properties of the real number system, exponents, radicals, polynomials, functions, graphing, equations, systems of equations, and quadratics.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 9-11

**PREREQUISITE:** MA101/102

**COREQUISITES:** If you take this course, you must also take MA222 - Algebra 1+ (Sem 2)

### Algebra 2

**MA301/MA302**

Level 3

This course is a traditional second year of algebra. Topics include: a brief review and extension of basic algebra principles; linear, quadratic, rational, radical, logarithmic, and exponential functions and equations; probability and statistics; and basic trigonometric functions and their properties.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 11-12

**PREREQUISITE:** MA221/222 or equivalent

**COREQUISITES:** If you take this course, you must also take MA302 - Algebra 2 (Sem 2)

### Algebra 2/Trigonometry

**MA311/MA312**

Level 3

This course combines a second year of algebra and the study of trigonometric functions. Topics include those listed above in Algebra 2 plus: sequences and series; combinatorics; properties of trigonometric and inverse trigonometric functions; trigonometric equations; solutions of oblique and right triangles.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 10-12

**PREREQUISITE:** MA111/MA112 - Accelerated Geometry **or** MA101/MA102 – Geometry **or** MA221/MA222 - Algebra 1

**COREQUISITES:** If you take this course, you must also take MA312 - Algebra 2/Trigonometry (Sem 2)

### Pre-Calculus

**MA411/MA412**

Level 4

This course emphasizes topics that will prepare the students for higher-level mathematics. It is recommended for students who will pursue college courses in mathematics, the sciences, engineering and other mathematics-intensive degrees. Topics

include: trigonometric functions and identities, inverse functions, plane and solid analytic geometry, polynomials, exponents and logarithms, statistics and probability, polar coordinates, complex numbers, and introductory calculus topics.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 10-12

**PREREQUISITE:** MA311 - Algebra 2/Trigonometry (Sem 1) **or** MA312 - Algebra 2/Trigonometry (Sem 2) **or** MA311E - Algebra 2/T Early Bird (Sem 1) **or** MA312E - Algebra 2/T Early Bird ( Sem 2)

**COREQUISITES:** If you take this course, you must also take MA412 - Pre-Calculus (Sem 2)

### **High School Transitional Math 4 – STEM**

Math course framework built around essential algebraic competencies designed to prepare students for college and career pathways in areas such as: Science, Technology Engineering, and Math for STEM which require advanced algebraic skills or calculus. Course design will enable students to transition directly into credit bearing college-level algebra courses. Students will engage in deepening conceptual understanding using algebra and mathematical applications of algebra and functions and how functions naturally arise using authentic modeling situations. The function families (linear, polynomial, rational, radical, and exponential will be emphasized. Additionally, the course shall emphasize the eight mathematical practices, particularly modeling within the setting of authentic and contextualized applications, and upon completion, the student should be able to: demonstrate and justify both orally and in writing conceptual understanding of functions combined with advanced algebraic knowledge to solve complex, contextualized, multi-step problems in authentic settings.

**Course NOTE:** Completion of the appropriate course in each pathway with a grade of C or better guarantees that the student will be placed in a credit-bearing college-level math course at all Illinois community colleges and at participating public universities.

**PREREQUISITES:** Senior student that has already completed the mathematics graduation requirement; successful completion of at least Algebra 2.

\*Students are strongly encouraged to take the mathematics placement test at Heartland Community College before selecting this course – a dual credit option may be more appropriate.

**CREDIT:** 1.0

**TYPE:** Transitional

**GRADE:** 12

### **HCC Math 109 College Algebra**

**MA403/MA404**

*Heartland Community College taught at UHS.*

The main concept of this course is the notion of a function. Polynomial, radical, rational, exponential, and logarithmic functions are studied from a symbolic, as well as graphical perspective. The course is intended to prepare college students for studying Calculus. Graphing utilities are used extensively as learning tools. A graphing calculator is required for this course.

**COURSE NOTE:** Must take the ACCUPLACER at HCC and enroll through the College Now program.

**CREDIT:** 1.0

**TYPE:** Dual Credit

**GRADE:** 12

### **AP Statistics**

**MA501/MA502**

Level 5

Lab Fee: AP test fee

This course emphasizes the mathematical topics and applications required for college level study in areas such as biology, business, computer science, and/or social science. Topics include: Methods of data collection, descriptive data analysis, probability, and inferential statistics.

**COURSE NOTE:** Students may also co-enroll in Pre-Calculus.

**CREDIT:** 1.0

**TYPE:** Advanced Placement

**GRADE:** 12

**PREREQUISITE:** MA 401/402 or MA 411/412

### **HCC Calculus 1 (Heartland Community College)**

*Heartland Community College taught at UHS.*

Topics include (but are not limited to) the following: limits and continuity; definition of derivative; rate of change, slope; derivatives of polynomial, rational, trigonometric, logarithmic and exponential functions; the chain rule; implicit differentials; approximation by differentials; higher order derivatives; Rolle's Theorem; Mean Value Theorem; applications of the derivative; anti-derivative; L'Hopital's Rule; the definite integral; the fundamental theorem of calculus; area under the curve and Riemann Sums; area between two curves, volume, and other applications of the integral. Note, a graphing calculator is required for this course (instruction will be based on a TI-89)

**Transferrable General Education Course:** This course generally should transfer to an Illinois Articulation Initiative college or university. Please consult with your advisor about transferability.

**CREDIT:** 1.0

**TYPE:** Dual Credit

**GRADE:** 10-12

**PREREQUISITE:** MA411/MA412 - Pre-Calculus

**\*Please Note:** Students enrolled in HCC Dual Credit Calculus are also able to sit for the AP Calculus test at University High School.

### **AP Calculus**

**MA511/MA512**

Level 5

Lab Fee: AP test fee applies

This is a first course in differential and integral calculus, covering all topics included in the AP AB Calculus curriculum. AP Calculus is comparable to a first college calculus course for students majoring in mathematics or the sciences. Students will take the AP Calculus exam in the spring.

**CREDIT:** 1.0

**TYPE:** Advanced Placement

**GRADE:** 10-12

**PREREQUISITE:** MA411/MA412 - Pre-Calculus

### **AP Calculus BC (Sem 2)**

**MA 514**

This is a college-level calculus course designed to meet the Advanced Placement curricular requirements for Calculus BC (equivalent to one year of college calculus). The major topics of this course are limits, derivatives, integrals, the Fundamental Theorem of Calculus, and series. We will investigate and analyze course topics using equations, graphs, tables, and words, with a particular emphasis on a conceptual understanding of calculus. Applications, in particular to solid geometry and physics, will be studied where appropriate.

Course

In addition to the regular classroom time, this hybrid course is taught from 3:00-4:00 in the Spring Semester. Students may enroll in BC for the entire year which will include the BC after school section.

**CREDIT:** .5

**TYPE:** Advanced Placement

**GRADE:** 10-12

**PREREQUISITE:** MA513 - AP Calculus (Sem 1)

**CREDIT EQUIVALENTS:** Course requires concurrent enrollment in any Calculus AB section. In addition to the daily AB course, this course will meet at least two days after school from approximately 3pm-4:00pm. Daily work is assigned and monitored

### **HCC Finite Math 111**

*Heartland Community College taught at UHS.*

**MA406**

This class focuses on applications of the following topics: matrices, matrix algebra, linear programming, sets and counting techniques, probability, and the mathematics of finance. A graphing calculator is required for this course (instruction will be based on a TI 83+).

**COURSE NOTE:** Must take ACCUPLACER and enroll through the College Now program at HCC.

**CREDIT:** 1.0

**TYPE:** Dual Credit

**GRADE:** 12

---

## *Music Department*

---

### **Band**

**MU131/MU132**

Lab Fee: \$75.00 for fall semester, and \$25.00 for spring semester

The band is an ensemble that provides musical experiences for students who play woodwind, brass, or percussion instruments. Students are taught instrumental and ensemble techniques with an emphasis on musicianship. The curriculum includes marching band and concert band, and students are required to attend and perform at all home football games, scheduled parades, contests, and concerts. Students at all levels of proficiency are welcomed, and students wishing to enter band as a beginner can do so with the consent of the instructor.

Attendance at all scheduled performances is required, as well as some required summer marching band rehearsals and marching band camp.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 9-12



each unit that correlate with the unit of study. Students will also have the opportunity to use the concepts learned to create their own compositions.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 11-12

### **HCC THEA 101: Introduction to Theater**

THEA 101 is an introductory course which focuses on drama as a performing art. Students will examine representative plays and study the historical, social, cultural, aesthetic, and technical aspects of theatrical expression. Students enrolled in the Heartland Dual Credit program will progress through the fundamentals of theatre as an art form and profession. This course is a general survey of theater including exploration of dramatic literature, theory, and criticism; production arts, skills, and crafts; and theater history from 500 BC to the present. It is designed to provide an overview of theatrical elements, tools, and applications.

**CREDIT:**0.5

**TYPE:** Dual Credit

**GRADE:** 11-12

---

## *Non-Traditional Coursework*

---

### **Heartland Class Request**

**HC301/HC302**

Credit: Varies based on the number of semester hours earned: 0.5 credit for 3 semester hour courses, 1.0 credit for 4 semester hour courses

Lab Fee: Tuition paid to Heartland

Registration Procedure:

1. Work with your U-High counselor to obtain their approval and complete this form: [Heartland Dual Credit Form](#)
2. Complete a Heartland Community College application if this is your first HCC class.
3. Submit the application, along with your transcript to HCC and take the Basic Skills Assessment Test if required.
4. Meet with a HCC advisor, provide the permission letter, and register for your class.
5. Once registered with HCC, fill out the form for U-High and return to your counselor.

Note: If for any reason the student drops this course, notify the Counseling Center immediately and follow the deadlines and procedure at HCC for dropping a class. Students are reminded that they must continue to maintain the six course period requirement.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 11-12

### **Illinois State University Dual Enrollment**

#### **ISU Dual Enrollment Request**

**IS401/IS402**

Credit earned: 0.5 credit for 3 semester hour courses, 1.0 credit for 4 semester hour courses

Lab Fee: Tuition paid to Illinois State University

Registration Procedure:

1. Work with your U-High counselor to obtain their approval and complete this form: [ISU Dual Credit Form](#)
2. Fill out an Illinois State University "Dual Enrollment" application prior to the deadline and meet admission requirements.
3. Return the application to the Counseling Center for processing.
4. Students wishing to take a Mathematics course at ISU must take the Math placement exam.
5. Registration will be handled by a designated University College Academic Advisor. A specific registration date and time will be established each semester for dual enrollment students. University College Advisors will come to U-High to register the students at that time. Students are not to contact the university to register.

Note: The philosophy of the Dual Enrollment Program is to offer an opportunity to enhance a student's interest in a particular field of study that is not offered at the high school.

Also note: Registration for this program will generally be limited to 30 U-High students each semester as space permits. If more than 10 students request the same ISU course, administration will determine if this specific need can be met by U-High. Special note: Following these procedures does not guarantee a seat in any given course at ISU.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 11-12

### **Illinois Virtual School**

#### **IVS Class Request**

**IV201/IV202**

Credit: 0.5 credit per semester

Course Fee: \$240

Registration Procedure:

1. Work with your U-High counselor to obtain their approval and complete this form: [IVS Request Form](#)
2. Select the course you are requesting. Courses that are offered at University High School are only permitted with valid reasoning and Department Chair permission.
3. Register on-line at [www.ilvirtual.org](http://www.ilvirtual.org) by following the enrollment process.
5. Attach a check for \$240.00 payable to University High School.
6. Final approval and official enrollment in the course will only occur after all the above procedures have been followed.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 10-12

## **Independent Study**

### **Independent Study Request**

**IN301/IN302**

Lab Fee: Varies depending on requirements of study

Registration Procedure:

1. Select a topic to study or project to perform
2. Find a teacher who will teach/lead/facilitate your study
3. Complete the Independent Study form with your sponsor.
4. Students must commit to a minimum of 5 hours per week for credit.
5. Return completed form to the Counseling Center within the first 10 days of the semester.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 11-12

## **Office Assistant**

### **Office Assistant Request**

**TA201/TA202**

Credit: None

Registration Procedure:

1. A student may elect to spend one of their six required classes working in a school office (main office or counseling center office).
2. This is a mutual agreement on contract between a teacher/supervisor and the student. The student agrees to be on time daily to perform tasks given by their supervisor.
3. No credit will be given.
4. Complete the required form and return it to the Counseling Center within the first 10 days of the semester.

**CREDIT:** 0

**TYPE:** Regular

**GRADE:** 12

**PREREQUISITE:** Senior standing with 3.0 GPA

## **Teacher Assistant**

### **Teacher Assistant Request**

**TA211/TA212**

Credit: None

Registration Procedure:

1. A student may elect to spend one of their six required classes assisting a teacher
2. This is a mutual agreement on contract between a teacher/supervisor and the student. The student agrees to be on time daily to perform tasks given by their supervisor.
3. No credit will be given.
4. Complete the required form and return it to the Counseling Center within the first 10 days of the semester.

**CREDIT:** 0

**TYPE:** Regular

**GRADE:** 12

**PREREQUISITE:** Senior standing with 3.0 GPA

---

*Physical, Health, & Driver Ed Department*

---

## **Freshman Wellness**

**PE101/PE102**

All students are enrolled in freshman wellness. This class combines Physical Education and Health. The concept is to expose the students to a total wellness program for individual health. Our goal in the class is for students to accept responsibility for their own health and through the wellness program examine alternatives for various lifestyle practices.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 9

**COREQUISITES:** If you take this course, you must also take PE102 - Freshman Wellness (Sem 2)

## **Dance and Orchestration**

**PE111E/PE112E**

May be repeated

Lab Fee: \$25.00 per semester

The dance division offers two levels combined with the emphasis on movement through dance, history, injury prevention, technique classes, dance composition, choreography, and performance. While both levels are encouraged to take part in two major dance concerts a year, Orchestration is the pre-auditioned performing group required to attend regular and mandatory rehearsals outside of class time. This course may be taken for either Physical Education or Fine Arts credit. This is an early bird course, meeting at 7:00am.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 9-12

## **Advanced Strength and Conditioning**

**PE213/PE214**

This course will be a training intensive curriculum. The focus of this course will be to improve the individual's strength, speed, power, flexibility, agility, balance, and bodily awareness. Activities included in the class will be a regimen of weight training, plyometrics, dynamic stretching, and static stretching. Additionally, instruction will be given on proper exercise techniques, and proper dietary supplementation for training. Participants in this class will be assessed using the SHAPE National Standards.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 10-12

## **Early Bird Section Advanced Strength and Conditioning**

**PE213E/PE214E**

This course will be a training intensive curriculum. The focus of this course will be to improve the individual's strength, speed, power, flexibility, agility, balance, and bodily awareness. Activities included in the class will be a regimen of weight training, plyometrics, dynamic stretching, and static stretching. Additionally, instruction will be given on proper exercise techniques, and proper dietary supplementation for training. Participants in this class will be assessed using the SHAPE National Standards.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 10-12

## **Personal Fitness**

**PE211/PE212**

The objective of this course is for students to set goals in order to compose a health related physical fitness program that will allow the individual to improve cardiovascular endurance, muscular strength and endurance, flexibility and body composition. This class is designed for those who wish to concentrate on an individualized fitness program rather than team activities. Data will be collected through heart rate monitors and other various equipment. Activities offered throughout the course include: aerobic activities, anaerobic activities, Zumba, kickboxing, Pilates, yoga, weight training, plyometrics, Spinning, concept days (nutrition, mental health, etc), and occasional team games

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 10-12

## **Physical Education Activities**

**PE201/PE202**

The activities offered in the course include: Badminton, Basketball, Billiards, Bowling, Fitness, Flag Football, Floor Hockey, Lacrosse, Pickle Ball, Recreation Games, Soccer, Softball, Tennis, Track, and Volleyball. The activities will be scheduled in three-week units through each quarter.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 10-12

## **Physical Education Activities Early Bird Section**

**PE201E/PE202E**

The activities offered in the course include: Aerobics, Archery, Badminton, Basketball, Billiards, Bowling, Fitness, Flag Football, Floor Hockey, Golf, Pickle Ball, Recreation Games, Soccer, Softball, Speedball, Table Tennis, Tennis, Track, Volleyball, and Weight Training. The activities will be scheduled in three-week units through each quarter.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 10-12

**COREQUISITES:** If you take this course, you must also take PE202E - Physical Education Activities Early Bird Section (Sem 2)

**PE Waiver Request Fall****PE311**

No description available

**CREDIT:** 0**TYPE:** Regular**GRADE:** 11-12**PE Waiver Request Spring****PE312**

No description available

**CREDIT:** 0**TYPE:** Regular**GRADE:** 11-12

---

*Science Department*

---

**Biology 1****SC111/SC112**

Lab Fee: \$10.00 per semester

Selected areas of biology are included with an emphasis on lab work. This is one of the foundation courses for the science sequence. Biology 1 has a focus on life and living systems and satisfies state standards and college entry requirements.

**COREQUISITES:** If you take this course, you must also take SC112 - Biology 1 (Sem 2)**CREDIT:** 1.0**TYPE:** Regular**GRADE:** 9-10**Chemistry****SC211/SC212**

Lab Fee: \$10.00 per semester

This course introduces the role of chemistry in contemporary society, providing a qualitative view of fundamental chemical concepts such as laboratory skills, atomic structures, chemical nomenclature and reactions, chemical analysis, and synthesis.

**PREREQUISITE:** SC111/112, not open to students who have passed SC221/222**COREQUISITES:** If you take this course, you must also take SC212 - Chemistry (Sem 2)**CREDIT:** 1.0**TYPE:** Regular**GRADE:** 10**Accelerated Chemistry****SC221/SC222**

Lab Fee: \$10.00 per semester

This course provides an accelerated quantitative discussion on the composition, structure, and interaction of matter. Through classroom work, demonstrations, projects, and extensive laboratory experiences topics such as atomic and nuclear structure, periodic relationships, chemical reactions, acids and bases, gas laws, solutions, and many others will be covered. Accelerated Chemistry should be taken by all students interested in science-related fields as a possible career. This course is required for enrollment in Advanced Placement Chemistry. Student must currently be enrolled in Algebra 2 or Algebra 2/Trig

**PREREQUISITE:** SC111 - Biology 1 (Sem 1) **or** SC112 - Biology 1 (Sem 2)**COREQUISITES:** If you take this course, you must also take SC222 - Accelerated Chemistry (Sem 2)**CREDIT:** 1.0**TYPE:** Accelerated**GRADE:** 10**Advanced Bio Sem I (Zoology and Animal Behavior):****SC311**

Zoology is the study of animals and their behavior. This semester-long class will focus on the study of different phyla within the animal kingdom. Students will identify, classify, and learn the evolutionary significance for each phylum. A key component of this class will be the dissection.

**PREREQUISITE:** Completion of Biology and Chemistry**CREDIT:** 0.5**TYPE:** Regular**GRADE:** 11-12

## **Advanced Bio Sem II (Biotechnology and Botany):**

**SC312**

This semester-long class which will cover elements of Biotechnology and Botany. There will be an emphasis on the understanding of protein synthesis and biotechnology methodology including PCR, gel electrophoresis, recombinant DNA, and insertion of genetic material into organisms to create GMOs. The other part of the semester class will take an in-depth look at botany including cell structure and function of basic plant parts and processes.

**PREREQUISITES:** Completion of Biology and Chemistry

**CREDIT:** 0.5    **TYPE:** Regular    **GRADE:** 11-12

## **Environmental Science**

**SC301/SC302**

Lab Fee: \$10.00 per semester

This course will study the consequences of the neglect and abuse of our natural environment and explore ways to change our environmental behaviors. Topics include a survey of scientific methodology; basic geological principles; terrestrial and aquatic ecology; population and community ecology; urban planning; biogeography; natural resource conservation (water; air; land; minerals; energy); biodiversity; pollution; waste management; relationship between human health and environment; relationship between economics, political issues, and environment; sustainability and quality of life issues.

**PREREQUISITE:** SC111/112 and either SC101/102 or SC211/212

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 11-12

## **Human Anatomy and Physiology**

**SC304/SC30**

This course will enable students to develop an understanding of the relationships between the structures and functions of the human body and to prepare them for higher education in medicine and/or Biology. Students will investigate every system in the human body and will also learn about development, epidemiology, and how diseases have shaped human history. The curriculum for this rigorous course includes 5 areas that will be assessed multiple times over the course of the year: Anatomy (including preserved cats), Physiology, Homeostasis Models, Pathophysiology, and Medical Terminology.

**PREREQUISITE:** Completion of Biology and Chemistry

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 11-12

## **Physics**

**SC321/SC322**

Lab Fee: \$10.00 per semester

This full-year course focuses on traditional concepts in physics, and encourages the exploration of new discoveries in this field of science. The course includes an overview of scientific principles and procedures, and leads students toward a clearer understanding of motion, energy, electricity, magnetism, and the laws that govern the physical universe. As students refine and expand their understanding of physics, they will apply their knowledge in experiments that require them to ask questions and create hypotheses. Throughout the course, students solve problems, reason abstractly, and learn to think critically. Students must have completed Algebra 2/Trig before taking this course.

**PREREQUISITE:** Students must be enrolled or have completed Algebra 2/T or have completed Algebra 2 and are currently enrolled in College Algebra.

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 10-12

## **AP Biology**

**SC314/SC316**

Lab Fee: \$10 per semester

This course will follow the format and rigors prescribed by AP courses. The course will provide students with an opportunity to develop a conceptual framework in modern biology. Emphasis will be placed on an understanding of science as a process rather than an accumulation of facts, recognition of evolution as the foundation of modern biological models and thought, the integration of the general topics will be reflected through 8 major themes and applications of biological knowledge and critical thinking to environmental and social issues. The course will include a laboratory component fulfilling the requirements of an AP class. The laboratory will be held one evening a week and is mandatory.

**CREDIT:** 1.5

**TYPE:** Advanced Placement

**GRADE:** 11-12

**AP Physics C:****SC403/404**

AP Physics is a calculus-based physics course that covers kinematics, dynamics, energy, momentum, rotation, gravitation, and oscillations. This course is the equivalent to the introductory physics course taken by science and engineering students at most colleges and universities. Students coming out of the course should have a strong conceptual understanding of physics and well-developed skills in performing and analyzing laboratory experiments. They should also be able to apply their understanding to approach and solve problems that for the AP electricity and magnetism test. Students must have completed Physics and be currently enrolled in AP Calculus or have already completed AP Calculus.

**PREREQUISITES:** Students must have completed Physics and Precalculus and currently enrolled in AP Calculus **OR** have already completed AP Calculus.

**CREDIT:** 1.0**TYPE:** Advanced Placement**GRADE:** 11-12**AP Chemistry****SC401/SC402**

Lab Fee: \$50.00 per semester, AP test fee applies

This course is designed to be the equivalent of the general chemistry course usually taken during the first college year and provides students with a college-level foundation to support future advanced coursework in science. This course explores content such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, equilibrium, acids and bases, and electrochemistry. A variety of inquiry-based experiments are conducted during a separate, mandatory laboratory period that meets each Wednesday night (6:00 p.m. - 9:00 p.m.) on the campus of ISU.

**PREREQUISITE:** SC211/SC212 - Chemistry **or** MA401 - College **or** MA411 - Pre-Calculus

**Course Note:** Students are not allowed to take HCC Chemistry 120 and then AP Chemistry or vice versa.

**CREDIT:** 1.75**TYPE:** Advanced Placement**GRADE:** 11-12**HCC Chemistry 120 Fundamentals of Chemistry****SC405/SC406**

This class is a survey of general, organic, and biological chemistry for students who plan to pursue a health-related profession or who have an interest in chemistry. An emphasis is placed on the relationship between chemistry and life through issues and examples from the health, medical, and environmental fields. Laboratory exercises will be used each week to reinforce the class material.

**PREREQUISITE:** Students must have passed general or accelerated chemistry with a B or better and be concurrently enrolled in Algebra II/Trig.

**Course Note:** Students are not allowed to take HCC Chemistry 120 and then AP Chemistry or vice versa.

**CREDIT:** 1.0**TYPE:** Dual Credit**GRADE:** 11-12

---

*Social Science Department*

---

**World Studies****SS101/SS102**

Using a global approach to history, this course in the Freshman Program is essentially a survey of political, cultural, and economic developments and achievement of humanity from pre-historic times to the present. Exercises in basic social science skills will include the development of geography skills, research skills, and the demonstration of analytical, critical, and reflective thinking skills through oral and written presentations. These skills will be implemented while examining such major themes as religions of the world, political and economic systems, causes and results of revolutions, and 20th century world conflicts.

**COREQUISITES:** If you take this course, you must also take SS102 - World Studies (Sem 2)

**CREDIT:** 1.0**TYPE:** Regular**GRADE:** 9

## **United States Studies**

**SS201/SS202**

The first semester of work emphasizes political growth and the origin and development of US history from the Colonial Period through the close of the Civil War. The course will use primary and secondary sources to inform students about topics in US history including law, economics, politics, democracy and society. Specifically we will investigate the revolutionary and constitutional period. The rise of popular politics and democracy will be investigated during the Age of Jackson. Finally various causes of the Civil war will be studied. We will focus on the diversity of America by looking at stories and contributions from all people who are Americans. Knowledge, skills, and attitudes that promote critical thinking and responsible participation in solving problems that challenge citizens of the nation and the world will be emphasized.

**COURSE NOTE:** Required for graduation.

**COREQUISITES:** If you take this course, you must also take SS202 - United States Studies (Sem 2)

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 10

## **United States Studies Early Bird Section**

**SS201E/SS202E**

The first semester of work emphasizes political growth and the origin and development of US history from the Colonial Period through the close of the Civil War. The course will use primary and secondary sources to inform students about topics in US history including law, economics, politics, democracy and society. Specifically we will investigate the revolutionary and constitutional period. The rise of popular politics and democracy will be investigated during the Age of Jackson. Finally various causes of the Civil war will be studied. We will focus on the diversity of America by looking at stories and contributions from all people who are Americans. Knowledge, skills, and attitudes that promote critical thinking and responsible participation in solving problems that challenge citizens of the nation and the world will be emphasized.

**COURSE NOTE:** This course is required for graduation.

**COREQUISITES:** If you take this course, you must also take SS202E - United States Studies Early Bird Section (Sem 2)

**CREDIT:** 1.0

**TYPE:** Regular

**GRADE:** 10

## **AP United States History**

**SS411/SS412**

Lab Fee: AP test fee applies

This course provides students with the analytical skills and factual knowledge to deal critically with the problems, issues, and materials in American History. It is the equivalent of a full-year college freshman survey course. The semester 1 program of study covers the pre-colonial period through the Reconstruction Era. This course meets the graduation requirements of 1.0m credit in U.S. History as well as offering the student the opportunity to earn 6-8 college credits. NOTE: Interested students should consult the College Board webpage for more information about the AP experience and course itself.

**CREDIT:** 1.0

**TYPE:** Advanced Placement

**GRADE:** 10-12

## **American Government and Politics: The State and Civic Engagement**

**SS321**

A one-semester study of the structure and history of the U.S. Constitution and federal government. This meets the U.S. and Illinois Constitution requirement for graduation as outlined in the Illinois School Code. The topics and themes will be federalism, republicanism, enfranchisement, flag usage and maintenance, separation of powers/checks and balances, judicial review, executive authority, and civic engagement. A variety of sources, including current readings from scholarly journals and other periodicals, will be used. Simulations, mock events, Socratic discussions, and individualized research projects constitute the instructional design of the course.

**COURSE NOTE:** This course is required for graduation.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 11-12

## **AP US Govt and Politics**

**SS322**

Lab fee: AP test fee applies.

This course will provide students with an analytical perspective on government and politics in the United States. Students will describe and compare important facts, concepts, and theories pertaining to U.S. government and politics. Specifically, they will examine and explain political processes and typical patterns of behavior, as well as their consequences; interpret relevant graphic and textual political data; and critically analyze relevant political theories and media to become informed and engaged citizens. The express purpose of this course is to prepare students for the AP U.S. Government and Politics exam. Therefore, this course will be taught with college level rigor and expectations.

**CREDIT:** 0.5

**TYPE:** Advanced Placement

**GRADE:** 11-12

**PREREQUISITE:** SS201 - United States Studies **or** SS201E - United States Studies Early Bird Section **or** SS202 - United States Studies **or** SS411 - AP United States History

## **AP Comparative Government & Politics**

**SS323**

As described by College Board, "Comparative Government and Politics introduces students to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate to students the importance of global political and economic changes. Comparison assists both in identifying problems and in analyzing policy-making."

**CREDIT:** 0.5

**TYPE:** Advanced Placement

**GRADE:** 11-12

**PREREQUISITE:** SS321 - American Government and Politics: The State and Civic Engagement **or** SS322 - AP US Govt and Politics

## **Philosophy**

**SS301**

This course introduces students to a variety of philosophical principals. Included topics are basic foundations of philosophy, ethics and political institutions, human free will, knowledge and reality, natural rights and the state of nature, the pursuit of power, human nature and citizenship, existence and skepticism, and the foundations of individual freedoms. All of these concepts will be explored in both their historical context and in how they relate to the student today. Assessments will be both authentic and alternative.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 11-12

## **Psychology**

**SS401**

This course introduces students to a variety of psychological principles. Included topics are basic psychological theories, the principles and applications of learning and cognitive processes, memory and thought, sensation and perception, altered states of consciousness, personality theory, the life span, and classification and treatment of abnormal behavior. The class will include frequent use of mini-experiments to demonstrate basic ideas.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 11-12

## **Sociology**

**SS402**

This course concentrates on the role of the group in society. Topics will include culture, socialization, gender issues, conformity and obedience, collective behavior and social movements, race and ethnicity, deviance and social control, and issues of social inequality. Students will apply sociological theories and principles to their own society as well as others around the world.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 11-12

## **HCC Dual Credit Sociology**

Heartland Community College course taught at U-High.

This course provides an introduction to the scientific study of society. Topics include the history of the discipline, culture, groups, organizations, bureaucracies, deviance, power and inequality, race/ethnicity, class, gender, education, the economy, the political institution, family, religion, and social change. Students will develop a critical understanding of social forces.

**Course Note: Students must complete the College Now application through HCC and pass the placement test.**

**CREDIT:** 0.5

**TYPE:** Dual Credit

**GRADE:** 11-12

## **Current Issues**

**SS332**

This course concentrates on using current media outlets to better help students understand many of the current issues facing our nation and world. Media resources such as television, film, and radio will be utilized in conjunction with a variety of different print sources, particularly newspapers and journals, to achieve the above mentioned goal. This course will meet alternating days of the week and will include outside class work online.

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 11-12

## **Modern U.S. History: 1945 – Present**

This course provides an introduction to modern American history: specifically, 1945 to the present day. Major topics include Cold War politics (e.g. Korea, Latin America, Vietnam, the Space Race), Cold War culture (e.g. music, movies, television, fashion, etc.); social movements (e.g. African American Civil Rights Movement, Women's Rights Movement, Gay Rights Movement, Red Power Movement, #MeToo Movement, Black Lives Matter, etc.); the War on Drugs and its impact on the modern criminal justice system; environmental history; and political history from Nixon to Trump (e.g. Watergate, Reaganomics, Persian Gulf War, 2000 election, War on Terror, Obama, Trump, and political polarization).

**CREDIT:** 0.5

**TYPE:** Regular

**GRADE:** 11-12

---

*Post-Secondary Elective*

---

**SCED 105: Life Success**

This course will help students gain awareness of their academic, career, and personal selves and facilitate development in each of these areas. Focus will be placed on gaining knowledge of each self, identifying areas of strength and those needing improvement, and mastering the tools necessary to achieve growth in these life areas. This class takes a step back from academic standards and focuses on the learner qualities that allow one to become a successful and reflective learner.

**CREDIT:** 0.5

**TYPE:** Dual Credit

**GRADE:** 12