

# High School Courses

## English

### **ENG 0011: English I: Composition and Literary Forms (.50 unit per semester)**

English I uses prose, fiction, poetry, and drama to develop a vocabulary for critically discussing and writing about literature. The course explores literature both creatively and analytically with an emphasis on developing a thesis.

### **ENG 0012: English I: Composition and Literary Forms (.50 unit per semester)**

English I uses prose, fiction, poetry, and drama to develop a vocabulary for critically discussing and writing about literature. The course explores literature both creatively and analytically with an emphasis on developing a thesis.

### **ENG 0013: Yearbook and Student Publications (.125 unit per semester)**

The Yearbook and Student Publications course is a collaborative business venture whose primary goal is to produce an accurate, thorough, consistent, technically correct record of the lives, emotions and activities of UNCSA high school students. The course requires students to take part in all aspects of production of the yearbook, the newspaper, and other publication opportunities that might arise. Students design, take photographs, conduct interviews and research, write articles, and use current technology for production, including Adobe In Design. This course does not satisfy any of the English requirements for graduation. **Prerequisite(s):** None

### **ENG 0014: Yearbook and Student Publications (.125 unit per semester)**

The Yearbook and Student Publications course is a collaborative business venture whose primary goal is to produce an accurate, thorough, consistent, technically correct record of the lives, emotions and activities of UNCSA high school students. The course requires students to take part in all aspects of production of the yearbook, the newspaper, and other publication opportunities that might arise. Students design, take photographs, conduct interviews and research, write articles, and use current technology for production, including Adobe In Design. This course does not satisfy any of the English requirements for graduation. **Prerequisite(s):** None

### **ENG 0021: English Composition and Introduction to Literary Critical Analysis (.50 unit per semester)**

English II uses the three main literary genres--prose fiction, poetry, and drama-- to develop a student's ability to read and analyze a text, generate an interpretation of its meaning, and communicate that interpretation both in discussion and writing. The class prepares students for college-level writing by fostering a critical awareness of their own writing and the requirements of thesis-driven essays. This class also emphasizes independent work and study skills.

### **ENG 0022: English II: Composition and Introduction to Literary Critical Analysis (.50 unit per semester)**

English II uses the three main literary genres--prose fiction, poetry, and drama-- to develop a student's ability to read and analyze a text, generate an interpretation of its meaning, and communicate that interpretation both in discussion and writing. The class prepares students for college-level writing by fostering a critical awareness of their own writing and the requirements of thesis-driven essays. This class also emphasizes independent work and study skills.

### **ENG 0031: English III: American Literature (.50 unit per semester)**

English III engages students in a close reading of influential and representative works of American fiction and non-fiction. Along with regular reading and discussion, the course includes the composition of analytical essays, personal essays, and fiction.

### **ENG 0032: English III: American Literature (.50 unit per semester)**

English III engages students in a close reading of influential and representative works of American fiction and non-fiction. Along with regular reading and discussion, the course includes the composition of analytical essays, personal essays, and fiction.

**ENG 0041: English IV: Senior Seminar (.50 unit per semester)**

Senior Seminar is a seminar style course in which students read and discuss influential literary works from a variety of historical periods and cultures. Students will write analytical papers as well as personal essays, fiction, poetry, and arts reviews. There will be particular emphasis on discussion skills; students are encouraged to use the class to expand their ideas and develop their writing. This course expands the curriculum to include texts in a variety of media, including student performances. This course can fulfill the Citizen Artist Requirement.

**ENG 0042: English IV: Senior Seminar (.50 unit per semester)**

Senior Seminar is a seminar style course in which students read and discuss influential literary works from a variety of historical periods and cultures. Students will write analytical papers as well as personal essays, fiction, poetry, and arts reviews. There will be particular emphasis on discussion skills; students are encouraged to use the class to expand their ideas and develop their writing. This course expands the curriculum to include texts in a variety of media, including student performances. This course can fulfill the Citizen Artist Requirement.

**ENG 0045: Introduction to Film Studies (.50 unit per semester)**

Introduction to Film Studies introduces seniors to film as an art form and mode of communication. Students will become familiar with strategies and tools for reading film as a text, will be introduced to the history of film as an art form, and will explore various perspectives from which to view films. In addition, the class focuses on written expression of ideas, analysis, and interpretation and, through both formal and informal writing, will develop each student's writing skills.

**ENG 0046: Introduction to Film Studies (.50 unit per semester)**

Introduction to Film Studies introduces seniors to film as an art form and mode of communication. Students will become familiar with strategies and tools for reading film as a text, will be introduced to the history of film as an art form, and will explore various perspectives from which to view films. In addition, the class focuses on written expression of ideas, analysis, and interpretation and, through both formal and informal writing, will develop each student's writing skills.

**ENG 0051: Advanced Placement English Language and Composition (.50 unit per semester)**

Advanced Placement English Language and Composition is a seminar-style course for juniors that engages students in becoming critical readers of fiction and non-fiction prose written in a variety of periods, disciplines, and rhetorical contexts. The purpose of such literature is to aid students in understanding a writer's rhetorical and linguistic choices, rather than to study literary conventions. Reading and writing assignments are designed to guide students towards a greater awareness of the interactions among a writer's purposes, his or her subjects, and the audience's expectations, as well as the way generic conventions and the resources of language contribute to effectiveness in writing. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement English Language and Composition exam.

**ENG 0052: Advanced Placement English Language and Composition (.50 unit per semester)**

Advanced Placement English Language and Composition is a seminar-style course for juniors that engages students in becoming critical readers of fiction and non-fiction prose written in a variety of periods, disciplines, and rhetorical contexts. The purpose of such literature is to aid students in understanding a writer's rhetorical and linguistic choices, rather than to study literary conventions. Reading and writing assignments are designed to guide students towards a greater awareness of the interactions among a writer's purposes, his or her subjects, and the audience's expectations, as well as the way generic conventions and the resources of language contribute to effectiveness in writing. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement English Language and Composition exam.

**ENG 0053: Advanced Placement English Literature and Composition (.50 unit per semester)**

This seminar-style course for seniors that engages students in the careful reading and analysis of all genres of literature. Through close reading, discussion, and writing about literary texts, students deepen their understanding of how writers use language to create meaning. Students will examine how narrative structure, stylistic devices such as figurative language and symbolism, setting, and character development contribute to thematic ideas. Reading assignments are selected from a variety of historical periods and cultures, with a strong emphasis on poetry, drama, and fictional prose (short story, novella, and novel). Writing experiences include responses to poetry and prose passages, in-and-out-of-class essays, and a personal essay. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement English Literature and Composition exam. This course can fulfill the Citizen Artist Requirement.

**ENG 0054: Advanced Placement English Literature and Composition (.50 unit per semester)**

This seminar-style course for seniors that engages students in the careful reading and analysis of all genres of literature. Through close reading, discussion, and writing about literary texts, students deepen their understanding of how writers use language to create meaning. Students will examine how narrative structure, stylistic devices such as figurative language and symbolism, setting, and character development contribute to thematic ideas. Reading assignments are selected from a variety of historical periods and cultures, with a strong emphasis on poetry, drama, and fictional prose (short story, novella, and novel). Writing experiences include responses to poetry and prose passages, in-and-out-of-class essays, and a personal essay. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement English Literature and Composition exam. This course can fulfill the Citizen Artist Requirement.

## French

**FRE 0011: French I (.50 unit per semester)**

French I provides an introduction to the basic sounds, speech patterns, grammar and vocabulary of French. Emphasis is placed upon developing proficiency in speaking, listening, reading, and writing while learning about aspects of the Francophone world. Students who have had French in elementary or middle school should ask the instructor/guidance counselor about taking the placement test for French II.

**FRE 0012: French I (.50 unit per semester)**

French I provides an introduction to the basic sounds, speech patterns, grammar and vocabulary of French. Emphasis is placed upon developing proficiency in speaking, listening, reading, and writing while learning about aspects of the Francophone world. Students who have had French in elementary or middle school should ask the instructor/guidance counselor about taking the placement test for French II.

**FRE 0021: French II (.50 unit per semester)**

French II offers continued study of the language and aspects of Francophone culture, including essential grammar and vocabulary. Focus is placed upon increasing proficiency in speaking, listening, reading, and writing; strengthening the ability to analyze, understand, and apply new concepts; and building confidence in conversational skills. This course includes a review of French I vocabulary and grammar. **Prerequisite(s):** French I; placement testing.

**FRE 0022: French II (.50 unit per semester)**

French II offers continued study of the language and aspects of Francophone culture, including essential grammar and vocabulary. Focus is placed upon increasing proficiency in speaking, listening, reading, and writing; strengthening the ability to analyze, understand, and apply new concepts; and building confidence in conversational skills. This course includes a review of French I vocabulary and grammar. **Prerequisite(s):** French I; placement testing.

**FRE 0031: Advanced French (.50 unit per semester)**

Advanced French offers an in-depth study of the French language and aspects of Francophone culture, including advanced grammar structure and vocabulary. Authentic Francophone texts, music, videos, and films are used to expand proficiency in speaking, listening, reading, and writing; to strengthen students' ability to analyze, understand and apply new concepts; and to build confidence in conversational skills. The course is conducted primarily in French.

**Prerequisite(s):** French II; placement testing.

**FRE 0032: Advanced French (.50 unit per semester)**

Advanced French offers an in-depth study of the French language and aspects of Francophone culture, including advanced grammar structure and vocabulary. Authentic Francophone texts, music, videos, and films are used to expand proficiency in speaking, listening, reading, and writing; to strengthen student's ability to analyze, understand and apply new concepts; and to build confidence in conversational skills. The course is conducted primarily in French.

**Prerequisite(s):** French II; placement testing.

## Health

**HEA 0011: Wellness (.50 unit per semester)**

Wellness introduces students to a holistic approach to wellness and provides tools to cultivate a balanced life. The course topics include physical, emotional, social, intellectual, and occupational health. The course is tailored to be specific to the needs of young artists in a residential environment.

**HEA 0012: Wellness (.50 unit per semester)**

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## High School

**HSC 0031: High School Guided Study (.125 to .50 units per semester)**

The High School Guided Study course option is initiated as needed by the High School Academic Program (HSAP) administration when an individual high school student requires a course, typically for graduation or college admission, that the program cannot otherwise accommodate through its regular course offerings or schedule. Guided Study is available only in the subject-areas already offered by the HSAP, as identified in the High School Bulletin by these course prefixes: ENG, MAT, SPA, FRE, HEA, SST and SCI. However, Guided Study may not be offered as a direct substitute for any individual HSAP course already listed in the High School Bulletin. Students may not initiate a Guided Study.

**HSC 0032: High School Guided Study (.125 to .50 units per semester)**

The High School Guided Study course option is initiated as needed by the High School Academic Program (HSAP) administration when an individual high school student requires a course, typically for graduation or college admission, that the program cannot otherwise accommodate through its regular course offerings or schedule. Guided Study is available only in the subject-areas already offered by the HSAP, as identified in the High School Bulletin by these course prefixes: ENG, MAT, SPA, FRE, HEA, SST and SCI. However, Guided Study may not be offered as a direct substitute for any individual HSAP course already listed in the High School Bulletin. Students may not initiate a Guided Study.

# Mathematics

## **MAT 0011: Algebra I (.50 unit per semester)**

Algebra I is a one-year comprehensive course designed to develop a solid foundation of algebra by building on past math knowledge. This course will examine characteristics of functions with a focus on linear, exponential, and quadratic functions and equations. The course will also include one and two variable statistics. The emphasis will be on solving problems, both abstract and contextual, which require fluency with multiple representations of mathematical concepts. Current technology will be used when appropriate. **Prerequisite(s):** placement test

## **MAT 0012: Algebra I (.50 unit per semester)**

Algebra I is a one-year comprehensive course designed to develop a solid foundation of algebra by building on past math knowledge. This course will examine characteristics of functions with a focus on linear, exponential, and quadratic functions and equations. The course will also include one and two variable statistics. The emphasis will be on solving problems, both abstract and contextual, which require fluency with multiple representations of mathematical concepts. Current technology will be used when appropriate. **Prerequisite(s):** placement test

## **MAT 0021: Geometry (.50 unit per semester)**

This Euclidean geometry contains an in-depth analysis of the properties of and relationships between geometric objects. This course includes the study of points, lines, planes, angles; polygons, with a special focus on quadrilaterals, triangles, and right triangles; and circles. Problem-solving is emphasized, and an understanding of proof and logic is developed. **Prerequisite(s):** Algebra I.

## **MAT 0022: Geometry (.50 unit per semester)**

This Euclidean geometry contains an in-depth analysis of the properties of and relationships between geometric objects. This course includes the study of points, lines, planes, angles; polygons, with a special focus on quadrilaterals, triangles, and right triangles; and circles. Problem-solving is emphasized, and an understanding of proof and logic is developed. **Prerequisite(s):** Algebra I.

## **MAT 0031: Algebra II (.50 unit per semester)**

Algebra II is a second year algebra course. The course emphasizes the study of sequences, polynomials and rational functions, complex numbers and rational exponents, exponential functions and equations, and transformations of functions. Additional topics may include trigonometric functions and statistics. The emphasis will be on solving problems, both abstract and contextual, which require fluency with multiple representations of mathematical concepts. Current technology will be used when appropriate. **Prerequisite(s):** Algebra I or equivalent course

## **MAT 0032: Algebra II (.50 unit per semester)**

Algebra II is a second year algebra course. The course emphasizes the study of sequences, polynomials and rational functions, complex numbers and rational exponents, exponential functions and equations, and transformations of functions. Additional topics may include trigonometric functions and statistics. The emphasis will be on solving problems, both abstract and contextual, which require fluency with multiple representations of mathematical concepts. Current technology will be used when appropriate. **Prerequisite(s):** Algebra I or equivalent course

## **MAT 0041: Advanced Functions and Modeling (.50 unit per semester)**

Advanced Functions and Modeling is designed to further strengthen algebraic manipulation and graphing skills while introducing a selection of other topics and applications. Additional topics may include trigonometric functions, sequences and series, and probability. Concepts will be applied to real-world situations and technology will be used regularly. **Prerequisite:** Algebra II.

**MAT 0042: Advanced Functions and Modeling (.50 unit per semester)**

Advanced Functions and Modeling is designed to further strengthen algebraic manipulation and graphing skills while introducing a selection of other topics and applications. Additional topics may include trigonometric functions, sequences and series, and probability. Concepts will be applied to real-world situations and technology will be used regularly. **Prerequisite:** Algebra II.

**MAT 0043: Pre-Calculus (.50 unit per semester)**

The central theme of Pre-Calculus is functions as models of change. The course includes study of linear, quadratic, exponential, logarithmic, periodic, rational, and polynomial functions. Emphasis is placed on multi-representational approaches to pre-calculus topics, with functions being expressed graphically, numerically, symbolically, and verbally. This course is designed to prepare students for the study of calculus. **Prerequisite(s):** Algebra II.

**MAT 0044: Pre-Calculus (.50 unit per semester)**

The central theme of Pre-Calculus is functions as models of change. The course includes study of linear, quadratic, exponential, logarithmic, periodic, rational, and polynomial functions. Emphasis is placed on multi-representational approaches to pre-calculus topics, with functions being expressed graphically, numerically, symbolically, and verbally. This course is designed to prepare students for the study of calculus. **Prerequisite(s):** Algebra II.

**MAT 0045: Discrete Math (.50 unit per semester)**

Discrete mathematics is a one-year course that introduces students to the mathematics of networks, data analysis, and decision making. Applications and modeling are central to this course of study. Additional topics may include number theory, financial math, set theory, logic, parametric equations, and connections between mathematics and the arts. Appropriate technology, from manipulatives to calculators and application software, are used regularly. This course can fulfill the Citizen Artist Requirement. **Prerequisite(s):** Algebra II or equivalent

**MAT 0046: Discrete Math (.50 unit per semester)**

Discrete mathematics is a one-year course that introduces students to the mathematics of networks, data analysis, and decision making. Applications and modeling are central to this course of study. Additional topics may include number theory, financial math, set theory, logic, parametric equations, and connections between mathematics and the arts. Appropriate technology, from manipulatives to calculators and application software, are used regularly. This course can fulfill the Citizen Artist Requirement. **Prerequisite(s):** Algebra II or equivalent.

**MAT 0051: Advanced Placement Calculus AB (.50 unit per semester)**

AP Calculus AB is primarily concerned with developing students' understanding of the concepts of calculus and providing experience with its methods and applications. Technology is used regularly in the course to study the unifying themes of derivatives, integrals, limits, approximations, and applications and modeling. The course emphasizes multi-representational approaches to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. Importance is placed upon the connections among these representations. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement Calculus AB exam. **Prerequisite(s):** Pre-Calculus or equivalent.

**MAT 0052: Advanced Placement Calculus AB (.50 unit per semester)**

AP Calculus AB is primarily concerned with developing students' understanding of the concepts of calculus and providing experience with its methods and applications. Technology is used regularly in the course to study the unifying themes of derivatives, integrals, limits, approximations, and applications and modeling. The course emphasizes multi-representational approaches to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. Importance is placed upon the connections among these representations. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement Calculus AB exam. **Prerequisite(s):** Pre-Calculus or equivalent.

**MAT 0053: Advanced Placement Statistics (.50 unit per semester)**

AP Statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The course includes analysis of data through the use of graphical and numerical techniques to study patterns and departures from patterns; the collection of data through well-developed plans; the development of the use of probability as the tool for anticipating what the distribution of data should look like under a given model; and the use of statistical inference to estimate population parameters and test hypotheses. Important components of the course include the use of technology, projects and laboratories, cooperative group problem-solving, and writing, as parts of concept-oriented instruction and assessment. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement Statistics exam. This course can fulfill the Citizen Artist Requirement. **Prerequisite(s):** Algebra II or equivalent, but Pre-Calculus or equivalent strongly recommended.

**MAT 0054: Advanced Placement Statistics (.50 unit per semester)**

AP Statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The course includes analysis of data through the use of graphical and numerical techniques to study patterns and departures from patterns; the collection of data through well-developed plans; the development of the use of probability as the tool for anticipating what the distribution of data should look like under a given model; and the use of statistical inference to estimate population parameters and test hypotheses. Important components of the course include the use of technology, projects and laboratories, cooperative group problem-solving, and writing, as parts of concept-oriented instruction and assessment. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement Statistics exam. This course can fulfill the Citizen Artist Requirement. **Prerequisite(s):** Algebra II or equivalent, but Pre-Calculus or equivalent strongly recommended.

## Science

**SCI 0011: Integrated Science Seminar (.50 unit per semester)**

Integrated Science Seminar is the standard 9th grade course in the HSAP at UNCSEA. This course provides the requisite foundation for all subsequent UNCSEA science courses. This course is an introduction to the basic principles of scientific thinking and processes. The course includes student use of inquiry to formulate questions, propose hypotheses, design and conduct investigations, and communicate results based on evidence. The course includes student analysis of situations in the real world with principles of chemistry and physics, application of scientific ideas with technology, and evaluation of the outcomes of such applications. **Prerequisite(s):** None

**SCI 0012: Integrated Science Seminar (.50 unit per semester)**

Integrated Science Seminar is the standard 9th grade course in the HSAP at UNCSEA. This course provides the requisite foundation for all subsequent UNCSEA science courses. This course is an introduction to the basic principles of scientific thinking and processes. The course includes student use of inquiry to formulate questions, propose hypotheses, design and conduct investigations, and communicate results based on evidence. The course includes student analysis of situations in the real world with principles of chemistry and physics, application of scientific ideas with technology, and evaluation of the outcomes of such applications. **Prerequisite(s):** None

**SCI 0023: Chemistry (.50 unit per semester)**

Chemistry is the standard 10th grade course in the HSAP at UNCSEA. Chemistry is an examination of matter in a lab-based setting, with emphasis on the structures, properties, and interactions of matter. The course provides many connections to the everyday life of the student as well as a strong foundation for subsequent UNCSEA science courses. It also encourages the development of new problem-solving and visualization skills. Labs and activities seek to further students' procedural skills as well as providing a framework for new knowledge. **Prerequisite(s):** Ninth grade students co-enrolled in Algebra II or higher may enroll in Chemistry.

**SCI 0024: Chemistry (.50 unit per semester)**

Chemistry is the standard 10 grade course in the HSAP at UNCSEA. Chemistry is an examination of matter in a lab-based setting, with emphasis on the structures, properties, and interactions of matter. The course provides many connections to the everyday life of the student as well as a strong foundation for subsequent UNCSEA science courses. It also encourages the development of new problem-solving and visualization skills. Labs and activities seek to further students' procedural skills as well as providing a framework for new knowledge. **Prerequisite(s):** Ninth grade students co-enrolled in Algebra II or higher may enroll in Chemistry.

**SCI 0033: Biology (.50 unit per semester)**

Biology is the standard 11th grade course in the HSAP at UNCSEA. Biology presents a study of basic biological concepts and laboratory techniques through lecture, group work, class discussion, and experimentation. Topics may include, but are not limited to: the nature and history of science, biological evolution; interactions of organisms with their environments; matter, energy, and organization in living systems; cell biology; the molecular basis of heredity; human anatomy and physiology; and biotechnology. The course includes student exploration of cultural, social, economic, and political issues embedded in the biological sciences. **Prerequisite(s):** SCI 0023-0024: Chemistry

**SCI 0034: Biology (.50 unit per semester)**

Biology is the standard 11th grade course in the HSAP at UNCSEA. Biology presents a study of basic biological concepts and laboratory techniques through lecture, group work, class discussion, and experimentation. Topics may include, but are not limited to: the nature and history of science, biological evolution; interactions of organisms with their environments; matter, energy, and organization in living systems; cell biology; the molecular basis of heredity; human anatomy and physiology; and biotechnology. The course includes student exploration of cultural, social, economic, and political issues embedded in the biological sciences. **Prerequisite(s):** SCI 0023-0024: Chemistry

**SCI 0041: Environmental Science (.50 unit per semester)**

Environmental Science focuses on the following themes: (1) The energy conversions that underlie all ecological processes; (2) the earth as one interconnected system; (3) the role that humans play in altering natural systems; (4) the development of sustainable systems. This course can fulfill the Citizen Artist Requirement. **Prerequisite(s):** one year of High School Biology and one year of High School Chemistry, or permission of the instructor.

**SCI 0042: Environmental Science (.50 unit per semester)**

Environmental Science focuses on the following themes: (1) The energy conversions that underlie all ecological processes; (2) the earth as one interconnected system; (3) the role that humans play in altering natural systems; (4) the development of sustainable systems. This course can fulfill the Citizen Artist Requirement. **Prerequisite(s):** one year of High School Biology and one year of High School Chemistry, or permission of the instructor.

**SCI 0043: Physics (.50 unit per semester)**

Physics provides a lab-based, conceptual and mathematical approach to the study of physics. The course emphasizes problem-solving, data collection and analysis, and presentation and discussion of data collected during laboratory work. Topics may include, but are not limited to, the following; mechanics; electricity and magnetism; sound and light. **Prerequisite(s):** Biology and Algebra II

**SCI 0044: Physics (.50 unit per semester)**

Physics provides a lab-based, conceptual and mathematical approach to the study of physics. The course emphasizes problem-solving, data collection and analysis, and presentation and discussion of data collected during laboratory work. Topics may include, but are not limited to, the following; mechanics; electricity and magnetism; sound and light. **Prerequisites:** Biology and Algebra II

**SCI 0045: Biology Research & Experimental Design (.50 unit per semester)**

Biology Research and Experimental Design will give students experience designing and conducting research on subjects of interest to them within selected biological topics. These topics may include animal and plant behavior, genetics, photosynthesis and respiration, cell and molecular biology, and population studies. Emphasis will be placed on data collection, data analysis, and science writing. This course is intended for 11th and 12th graders. This course can fulfill the Citizen Artist Requirement. **Prerequisites:** Biology and Chemistry

**SCI 0046: Biology Research & Experimental Design (.50 unit per semester)**

Biology Research and Experimental Design will give students experience designing and conducting research on subjects of interest to them within selected biological topics. These topics may include animal and plant behavior, genetics, photosynthesis and respiration, cell and molecular biology, and population studies. Emphasis will be placed on data collection, data analysis, and science writing. This course is intended for 11th and 12th graders. This course can fulfill the Citizen Artist Requirement. **Prerequisites:** Biology and Chemistry.

**SCI 0051: Advanced Placement Environmental Science (.50 unit per semester)**

The AP Environmental Science course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. AP Environmental Science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement Environmental Science exam. This course can fulfill the Citizen Artist Requirement. **Prerequisites:** SCI 0023-0024: Chemistry and SCI 0033-0034: Biology

**SCI 0052: Advanced Placement Environmental Science (.50 unit per semester)**

The AP Environmental Science course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. AP Environmental Science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement Environmental Science exam. This course can fulfill the Citizen Artist Requirement. **Prerequisite(s):** SCI 0023-0024: Chemistry and SCI 0033-0034: Biology

**SCI 0053: Advanced Placement Physics 1 (.50 unit per semester)**

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 these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion, and waves. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement Physics 1 exam. **Prerequisites:** MAT 0021 and 0022: Geometry; students must have completed or be concurrently taking MAT 0031: Algebra II

**SCI 0054: Advanced Placement Physics 1 (.50 unit per semester)**

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 these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion, and waves. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement Physics 1 exam. **Prerequisites:** MAT 0021 and 0022: Geometry; students must have completed or be concurrently taking MAT 0032: Algebra II

# Spanish

## **SPA 0011: Spanish I (.50 unit per semester)**

Spanish I introduces students to basic grammar structures and vocabulary of the Spanish language, as well as to cultural and social aspects of the Hispanic world. Emphasis is placed on a communicative approach and student participation. Students who have had Spanish in elementary or middle school should ask the instructor/guidance counselor about taking the placement test for Spanish II.

## **SPA 0012: Spanish I (.50 unit per semester)**

Spanish I introduces students to basic grammar structures and vocabulary of the Spanish language, as well as to cultural and social aspects of the Hispanic world. Emphasis is placed on a communicative approach and student participation. Students who have had Spanish in elementary or middle school should ask the instructor/guidance counselor about taking the placement test for Spanish II.

## **SPA 0021: Spanish II (.50 unit per semester)**

Spanish II offers continued study of vocabulary and grammar for communication in Spanish, as well, as for a study of Hispanic culture. Emphasis is placed on a communicative approach and student participation. Most of the class is conducted in Spanish. This course includes a review of Spanish I vocabulary and grammar. **Prerequisite(s):** Spanish I; placement testing.

## **SPA 0022: Spanish II (.50 unit per semester)**

Spanish II offers continued study of vocabulary and grammar for communication in Spanish, as well, as for a study of Hispanic culture. Emphasis is placed on a communicative approach and student participation. Most of the class is conducted in Spanish. This course includes a review of Spanish I vocabulary and grammar. **Prerequisite(s):** Spanish I; placement testing.

## **SPA 0031: Advanced Spanish (.50 unit per semester)**

Advanced Spanish offers an in-depth study of the Spanish language, including advanced grammar structures and vocabulary. This course also includes a study of Hispanic culture, literature, and art. Most of the class is conducted in Spanish. Emphasis is placed on a communicative approach and student participation. **Prerequisite(s):** Spanish II or placement testing.

## **SPA 0032: Advanced Spanish (.50 unit per semester)**

Advanced Spanish offers an in-depth study of the Spanish language, including advanced grammar structures and vocabulary. This course also includes a study of Hispanic culture, literature, and art. Most of the class is conducted in Spanish. Emphasis is placed on a communicative approach and student participation. **Prerequisite(s):** Spanish II or placement testing.

# Social Studies

## **SST 0011: World History (.50 unit per semester)**

This survey course that uses an historical approach to the study of human experience throughout the world from ancient to contemporary times. The contributions of and the patterns of living in civilizations around the world will be examined. This course is offered for students in grade 9.

## **SST 0012: World History (.50 unit per semester)**

This survey course that uses an historical approach to the study of human experience throughout the world from ancient to contemporary times. The contributions of and the patterns of living in civilizations around the world will be examined. This course is offered for students in grade 9.

**SST 0021: Civics and Economics (.50 unit per semester)**

Civics and Economics provides a study of political, legal, and economic systems in the United States and around the world. This course encourages students to hone citizenship skills as they engage in critical issues facing contemporary society. This course is offered for students in grade 10.

**SST 0022: Civics and Economics (.50 unit per semester)**

Civics and Economics provides a study of political, legal, and economic systems in the United States and around the world. This course encourages students to hone citizenship skills as they engage in critical issues facing contemporary society. This course is offered for students in grade 10.

**SST 0031: United States History (.50 unit per semester)**

United States History is a survey course that focuses on social, political, economic, and cultural issues and how these issues have influenced American society over time. This course emphasizes the uniqueness of American institutions and their importance in the world today. This course is offered for students in grades 11 and 12.

**SST 0032: United States History (.50 unit per semester)**

United States History is a survey course that focuses on social, political, economic, and cultural issues and how these issues have influenced American society over time. This course emphasizes the uniqueness of American institutions and their importance in the world today. This course is offered for students in grades 11 and 12.

**SST 0041: World Cultural History (.50 unit per semester)**

This course focuses on the common themes of human experience throughout the world from ancient to contemporary times, enabling students to establish links across time and across cultures. This course is offered for students in grades 11 and 12 who have not completed the UNCSEA graduation requirement for World History. May be taken as a social studies elective.

**SST 0042: World Cultural History (.50 unit per semester)**

This course focuses on the common themes of human experience throughout the world from ancient to contemporary times, enabling students to establish links across time and across cultures. This course is offered for students in grades 11 and 12 who have not completed the UNCSEA graduation requirement for World History. May be taken as a social studies elective.

**SST 0043: Advanced Civics and Economics (.50 unit per semester)**

Advanced Civics and Economics provides an advanced study of political, legal, and economic systems in the United States and around the world. This course helps students hone citizenship skills as they engage in critical issues facing contemporary society. This course is offered for students in the 11th and 12th grades who have not completed the UNCSEA graduation requirement for civics and economics. May be taken as a social studies elective.

**SST 0044: Advanced Civics and Economics (.50 unit per semester)**

Advanced Civics and Economics provides an advanced study of political, legal, and economic systems in the United States and around the world. This course helps students hone citizenship skills as they engage in critical issues facing contemporary society. This course is offered for students in the 11th and 12th grades who have not completed the UNCSEA graduation requirement for civics and economics. It may also be taken as a social studies elective.

**SST 0045: African Diaspora Studies (.50 unit per semester)**

This course will examine first the history of pre-diaspora Sub-Saharan Africa and the subsequent forced migration of millions of Africans to the "New World." A diaspora is literally a scattering or dispersal. In the case of peoples, a diaspora refers to their dispersal to other lands from a hearth or homeland. The African Diaspora represents world history's largest forced "scattering" of peoples to new lands. After the introductory unit, the course considers the legacy and cultural contributions of Africans to four contemporary countries: the United States, the Dominican Republic and Haiti, and Brazil. This course can fulfill the Citizen Artist Requirement. **Prerequisite(s):** None

**SST 0046: African Diaspora Studies (.50 unit per semester)**

This course will examine first the history of pre-diaspora Sub-Saharan Africa and the subsequent forced migration of millions of Africans to the "New World." A diaspora is literally a scattering or dispersal. In the case of peoples, a diaspora refers to their dispersal to other lands from a hearth or homeland. The African Diaspora represents world history's largest forced "scattering" of peoples to new lands. After the introductory unit, the course considers the legacy and cultural contributions of Africans to four contemporary countries: the United States, the Dominican Republic and Haiti, and Brazil. This course can fulfill the Citizen Artist Requirement. **Prerequisites:** None

**SST 0051: Advanced Placement United States History (.50 unit per semester)**

The Advanced Placement United States History course is designed to introduce political, economic, social, diplomatic and cultural concepts of American history from its colonial beginnings to the present day. Great emphasis will be placed upon themes that include American diversity and identity, politics and citizenship, demographic and economic transformations, reform efforts, and diplomacy and war. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement Exam in United States History.

**SST 0052: Advanced Placement United States History (.50 unit per semester)**

The Advanced Placement United States History course is designed to introduce political, economic, social, diplomatic and cultural concepts of American history from its colonial beginnings to the present day. Great emphasis will be placed upon themes that include American diversity and identity, politics and citizenship, demographic and economic transformations, reform efforts, and diplomacy and war. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement Exam in United States History.

**SST 0053: Advanced Placement European History (.50 unit per semester)**

Advanced Placement European History is designed to introduce the wide spectrum of social, political, artistic, and diplomatic changes confronting Europe from the High Middle Ages of the 14th century to the present day. Great emphasis will be placed upon the factual intricacies of European History, a variety of historical sources, and the great works of history beginning with the Renaissance. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement Exam in European History. **Prerequisite(s):** None

**SST 0054: Advanced Placement European History (.50 unit per semester)**

Advanced Placement European History is designed to introduce the wide spectrum of social, political, artistic, and diplomatic changes confronting Europe from the High Middle Ages of the 14th century to the present day. Great emphasis will be placed upon the factual intricacies of European history, a variety of historical sources, and the great works of history beginning with the Renaissance. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement Exam in European History. **Prerequisite(s):** None

**SST 0055: Advanced Placement United States Government and Politics (.50 unit per semester)**

Advanced Placement United States Government and Politics gives students an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret US politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. political reality. Particular topics include the Constitutional underpinnings of U.S. government; the institutions of national government; political beliefs and behaviors; political parties, interest groups and mass media; public policy; and civil rights and civil liberties. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement exam in United States Government and Politics. For 11th and 12th graders only, this course meets the Civics and Economics high school diploma requirement at UNCSEA, but may be taken by students who have already completed the Civics and Economics or Advanced Civics and Economics course, or its equivalent, at another school.

**SST 0056: Advanced Placement United States Government and Politics (.50 unit per semester)**

Advanced Placement United States Government and Politics gives students an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret US politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. political reality. Particular topics include the Constitutional underpinnings of U.S. government; the institutions of national government; political beliefs and behaviors; political parties, interest groups and mass media; public policy; and civil rights and civil liberties. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement exam in United States Government and Politics. For 11th and 12th graders only, this course meets the Civics and Economics high school diploma requirement at UNCSEA, but may be taken by students who have already completed the Civics and Economics or Advanced Civics and Economics course, or its equivalent, at another school.

**SST 0057: Advanced Placement Art History (.50 unit per semester)**

AP Art History is designed to provide the same benefits to high school students as those provided by an introductory college course in art history. In the course, students examine major forms of artistic expression from the ancient world to the present and from a variety of cultures. They learn to look and analyze works of art within their historical context, and to articulate what they see or experience in a meaningful way. A meaningful way to experience works of art is learning to frame an understanding that relates how and why works of art communicate visual meaning. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement exam in Art History.

**SST 0058: Adv. Placement Art History (.50 unit per semester)**

AP Art History is designed to provide the same benefits to high school students as those provided by an introductory college course in art history. In the course, students examine major forms of artistic expression from the ancient world to the present and from a variety of cultures. They learn to look and analyze works of art within their historical context, and to articulate what they see or experience in a meaningful way. A meaningful way to experience works of art is learning to frame an understanding that relates how and why works of art communicate visual meaning. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement exam in Art History.

**SST 0060: Advanced Placement Psychology (.50 unit per semester)**

The AP Psychology course is designed to introduce high school seniors 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. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement Psychology exam.

**SST 0061: Advanced Placement Psychology (.50 unit per semester)**

The AP Psychology course is designed to introduce high school seniors 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. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement Psychology exam.

**SST 0062: Advanced Placement Human Geography (.50 unit per semester)**

The AP Human Geography course is equivalent to an introductory college-level course in human geography. The course, which can be taken by 11th and 12th graders, introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement Human Geography exam. Taken at UNCSEA, this course acts as a social studies elective and does not fulfill a graduation requirement. This course can fulfill the Citizen Artist Requirement. **Prerequisite(s):** None

**SST 0063: Advanced Placement Human Geography (.50 unit per semester)**

The AP Human Geography course is equivalent to an introductory college-level course in human geography. The course, which can be taken by 11th and 12th graders, introduces students to the systematic study of patterns and processes that have shaped human understanding, use and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. Students can qualify for credit at many colleges upon satisfactory completion of the College Board Advanced Placement Human Geography exam. Taken at UNCSEA, this course acts as a social studies elective and does not fulfill a graduation requirement. This course can fulfill the Citizen Artist Requirement. **Prerequisite(s):** None