

Greenfield School Graduation Requirements

Greenfield's Upper School curriculum is designed to both meet college entrance requirements and provide the academic foundations necessary for success in college. Students should consider college goals when selecting courses, as success in honors level and Advanced Placement courses are critical for admission to highly selective colleges. Students should consult with the School Counseling Office if they are uncertain whether their course selections align with college aspirations. All students must take six units each year and strong students are encouraged to take seven units.

The minimum requirements for graduation from Greenfield School are twenty-four (24) units including the following:

<u>Units</u>	<u>Program Area</u>
4	English
4	Mathematics
3 ½	Social Studies (including World History, U.S. History and Government/Economics)
3	Science (through Chemistry)
2	Foreign Language (in the same modern language)
1	Health and Physical Education
1	Fine Arts
½	Computer
2	Additional units from among English, Mathematics, Science, Social Studies, or Foreign Language courses
3	Electives

English

- **CP Creative Writing**

Recommended prerequisites for this course: none

Text Materials used for this course: Teacher selected passages

In this course students will spend time writing creatively in a variety of forms and genres. They will have independent projects as well as many in-class assignments. They will work on sharing their writing with their peers and giving feedback on each other's' work throughout the year.

- **Honors English I**

Recommended prerequisites for this course: 8th grade Reading and Writing **Textbook/Text Materials used for this course:** Prentice Hall Literature: Language and Literacy, Other texts (novels, plays, short stories, etc.) chosen at the discretion of the teacher.

In this class, freshmen will develop an understanding of literature as a means of expressing and comprehending intellectual and emotional life experience. They will obtain a greater awareness of semantics and syntax through oral and written work. Students will analyze a diverse array of literary forms and gain a deeper understanding of the critical aspects of short fiction, poetry, novels and classical dramatic works. They will also recognize stylistic elements and literary devices, and interpret their thematic significance. More specifically, students will learn to recognize the effects of symbolism, narrative style, point of view, irony, personification, plot structure, and satire in a work. Students will develop narrative, descriptive, comparison and contrast, analytic, and prose fiction in their writing. They will expand their vocabulary in preparation for improved writing and the SAT. Ultimately, students will strive not simply to improve their ability to think critically about the world, but to reflect on how literature can help them realize their place in it.

The Advanced course will have a similar course trajectory and basic expectations. Students will be challenged by a rigorous reading schedule, more difficult texts, higher expectations on graded work, and a faster paced classroom environment. The course will be designed for students with an excellent work ethic and strong English skills.

- **CP English I**

Recommended prerequisites for this course: 8th grade Reading and Writing

Text Materials used for this course: Prentice Hall Literature: Language and Literacy

Other texts (novels, plays, short stories, etc.) chosen at the discretion of the teacher.

In this class, freshmen will develop an understanding of literature as a means of expressing and comprehending intellectual and emotional life experience. They will obtain a greater awareness of semantics and syntax through oral and written work. Students will analyze a diverse array of literary forms and gain a deeper understanding of the critical aspects of short fiction, poetry, novels and classical dramatic works. They will also recognize stylistic elements

and literary devices, and interpret their thematic significance. More specifically, students will learn to recognize the effects of symbolism, narrative style, point of view, irony, personification, plot structure, and satire in a work. Students will develop narrative, descriptive, comparison and contrast, analytic, and prose fiction in their writing. They will expand their vocabulary in preparation for improved writing and the SAT. Ultimately, students will strive not simply to improve their ability to think critically about the world, but to reflect on how literature can help them realize their place in it.

- **CP English II**

Recommended prerequisites for this course: CP English 1

Text Materials used for this course: Prentice Hall Literature: The British Tradition

Other texts (novels, plays, short stories, etc.) chosen at the discretion of the teacher.

Overview of Course Content

During their course of study, students will develop critical reading skills and will cultivate an interest in language and literature. By surveying the literature of different English eras, students will gain historical background on each period of study and be exposed to a variety of forms and themes across eras. This course examines the literature of the medieval period, the Elizabethan Age, the seventeenth and eighteenth centuries, the Romantic period, the Victorian period, and finally the twentieth century. Students will gain experience writing creatively and critically about a variety of forms. They will end the year with a more sophisticated approach to reading and analyzing literature in preparation for more advanced studies in the English curriculum.

- **Honors English II**

Recommended prerequisites for this course: English I

Text Materials used for this course: Prentice Hall Literature: The British Tradition

Overview of Course Content

During their course of study, students will develop critical reading skills and will cultivate an interest in language and literature. By surveying the literature of different English eras, students will gain historical background on each period of study and be exposed to a variety of forms and themes across eras. This course examines the literature of the medieval period, the Elizabethan Age, the seventeenth and eighteenth centuries, the Romantic period, the Victorian period, and finally the twentieth century. Students will gain experience writing creatively and critically about a variety of forms. They will end the year with a more sophisticated approach to reading and analyzing literature in preparation for more advanced studies in the English curriculum. Advanced students should expect a heavier reading and writing load with many assignments to be completed outside of class.

- **CP English III**

Recommended prerequisites for this course: English I, English II

Text Materials used for this course: Prentice Hall Literature: The American Experience and selected novels

Overview of Course Content:

Students will gain knowledge of American Literature through a thematic approach to different genres. Students will demonstrate an understanding of the impact of early American writers on the development of the United States.

Students will improve reading comprehension, vocabulary, critical thinking skills and will utilize MLA style of writing in research papers.

- **AP English III, Language and Composition**

Recommended prerequisites for this course: CP English II or ADV English II

Text Materials used for this course: The Language of Composition

Overview of Course Content

The focus of Advanced Placement English Language and Composition is rhetorical analysis and argumentative writing. Students will be trained in analyzing texts for tone, purpose, syntax, rhetorical strategies, diction, and figures of speech. At the same time, students will analyze persuasive speeches and essays for their validity in reasoning and effectiveness in persuasion. Students will become skilled synthesizers of information, utilizing a variety of sources to support an assertion. The course will emphasize nonfiction, since this is the genre that appears on the College Board's examination. However, novels will also be used to aid students in linguistic analysis. The desire to read and research current events will be helpful to any student enrolled in Advanced Placement Language and Composition. Advanced Placement Language & Composition is an intensive writing course that prepares students for the type of argumentative and analytical writing that is expected of them at the college level. Student work will be required outside of class time

- **CP English IV/V**

Recommended prerequisites for this course: English III

Text Materials used for this course: Prentice Hall Literature: World Masterpieces

Other texts (novels, plays, short stories, etc.) chosen at the discretion of the teacher.

Overview of Course Content

In this course, students will survey the content and context of ancient and contemporary literature from around the world. Students will be expected to consider these diverse texts alongside one another in order to analyze the cross-cultural issues, styles, forms, and themes that emerge. The course will include a consideration of modern works influenced by older world texts. Students will review literary analysis and effective compositional form. They will understand the theory and develop the skills of writing in rhetorical modes of literary analysis and persuasion. Finally, they will review the concepts and skills associated with the research process and master MLA documentation style.

- **AP English IV, Literature and Composition**

Recommended prerequisites for this course: CP English III or AP English III

Text Materials used for this course: Perrine's Literature: Structure Sound and Sense

Overview of Course Content

Advanced Placement English Literature and Composition is designed to challenge the student's ability to think critically, to analyze and evaluate literature and its literary devices, and to write analytical essays effectively. The course draws from a diverse selection of literature from various genres, eras, topics, themes, and authors from an array of backgrounds, ethnicities, and cultures. In addition, information concerning cultural, historical, philosophical, and psychological influences is addressed. The genres include the epic, drama, novel, novella, short stories, and a major focus on poetry. Advanced Placement English Literature and Composition aims to refine and improve the student's writing style, voice, grammar, mechanics, organization, and expression. Students will analyze literature both independently and collaboratively with classmates. In addition, each student will prepare a research paper on literary

criticism using the current MLA standards and the use of electronic sources. Projects and other assignments incorporate multimedia to enhance the student's modern literacy skills. The Advanced Placement English Literature and Composition course prepares students for the College Board Advanced Placement English Literature and Composition Exam. Student work will be required outside of class time.

- **Public Speaking and Debate**

Recommended prerequisites for this course: none

Text materials for this course: instructor selected readings

Overview of Course Content

The purpose of this course is to provide students with an opportunity to present a number of speeches, including but not limited to persuasive, informative, tribute, and “how to” speeches. Students will also examine famous speeches and speakers from history, identifying important techniques and literary devices so that they can analyze why the speech has been perceived as successful and historically-relevant. The class is a highly participatory class, with students having numerous opportunities to present speeches of varying lengths to the class each week. The culminating activity will be a modified Lincoln-Douglas style debate in which students will engage in a timed and judged debate with a peer.

Foreign Language

- **CP Spanish I**

Recommended prerequisites for this course: none

Text Material used for this course: Textbook - Destinos Alternate Edition Student Edition 1996 by VanPatten, Marks, and Teschner. Workbook/Study Guide – to accompany Destinos Second Edition of the Alternate Edition (Lessons 1-26) by VanPatten, Marks, and Teschner.

Overview of Course Content

This course helps the students practice the most basic beginning phrases and vocabulary in Spanish. Students learn to use Spanish verbs in regular and irregular present tense. Students learn to write simple sentences in Spanish and eventually write a few paragraphs and to listen to and understand basic Spanish sentences and to respond to simple questions with accurate pronunciation. The course also teaches students to foster a positive attitude toward cultural differences between the U.S. and Hispanic countries and to know where Spanish is spoken in the world and the basic geography of Latin America. This course is designed to cover a wide range of abilities.

- **Honors Spanish I**

Recommended prerequisites for this course: none

Text Material used for this course: Textbook - Destinos Alternate Edition Student Edition 1996 by VanPatten, Marks, and Teschner. Workbook/Study Guide – to accompany Destinos Second Edition of the Alternate Edition (Lessons 1-26) by VanPatten, Marks, and Teschner.

Overview of Course Content

This course introduces and helps the students practice the most basic beginning phrases and vocabulary in Spanish. Students learn to use Spanish verbs in regular and irregular present tense. Students learn to write simple sentences in Spanish and eventually write a few paragraphs and to listen to and understand basic Spanish sentences and to respond to simple questions with accurate pronunciation. The course also teaches students to foster a positive attitude toward cultural differences between the U.S. and Hispanic countries and to know where Spanish is spoken in the world and the basic geography of Latin America. This course is designed to cover a wide range of abilities. Honors Spanish I is distinguished from CP Spanish I in that it moves at a faster pace, requires more independent reading and requires an end of year project, produced in Spanish, focusing on a region of Spain.

• CP Spanish II

Recommended prerequisites for this course: Spanish I

Text Material used for this course: Textbook - Destinos Alternate Edition Student Edition 1996 by VanPatten, Marks, and Teschner. Workbook/Study Guide – to accompany Destinos Second Edition of the Alternate Edition (Lessons 1-26) by VanPatten, Marks, and Teschner.

Overview of Course Content

This course promotes continued growth in ability to understand and speak Spanish, moving from beginner to intermediate level. Students expand their ability to read and write Spanish and greatly broaden their vocabulary. Students learn to use more than just the present tense of verbs, including preterit, imperfect, future, and commands along with fostering a positive attitude toward learning a second language.

• Honors Spanish II

Recommended prerequisites for this course: Spanish I

Text Materials used for this course: Textbook - Destinos Alternate Edition Student Edition 1996 by VanPatten, Marks, and Teschner. Workbook/Study Guide – to accompany Destinos Second Edition of the Alternate Edition (Lessons 1-26) by VanPatten, Marks, and Teschner.

Overview of Course Content

This course promotes continued growth in ability to understand and speak Spanish, moving from beginner to intermediate level. Students expand their ability to read and write Spanish and greatly broaden their vocabulary. Students learn to use more than just the present tense of verbs, including preterit, imperfect, future, and commands along with fostering a positive attitude toward learning a second language. Honors Spanish II is distinguished from CP Spanish II in that it moves at a faster pace, requires more independent reading and work, has higher and more expectations in assignments and projects and requires student to engage completely in Spanish conversation.

• Honors Spanish III

Recommended prerequisites for this course: a final average of 80% or higher in Honors Spanish II and solid knowledge and recall of Spanish I

Text Materials used for this course: Textbook - Destinos Alternate Edition Student Edition 1996 by VanPatten, Marks, and Teschner. Workbook/Study Guide – to accompany Destinos Second Edition of the Alternate Edition by VanPatten, Marks, and Teschner, teacher selected short stories and passages

Overview of Course Content

Students are expected to use only Spanish in the classroom, and students must be willing to participate actively in listening comprehension and speaking. During second semester students will prepare and show a Power Point presentation on a cultural or historical event in Cuba or Puerto Rico. Gradually, reading and writing assignments become more difficult and lengthy.

Students review the vocabulary, pronouns, and verbs learned in Spanish I and II. Major grammar components of Spanish III include using the imperfect and preterit to express the past, using the future tense, and learning to form and use the subjunctive mood when required. The comparative and superlative constructions are practiced.

Vocabulary topics are home and appliances, adjectives of personality, body parts and medical situations, specific stores and businesses, geography terms, and professions. The course covers the history and cultural aspects of Puerto Rico and Cuba, along with an introduction to Mexico. By the end of the course students will have completed up through lesson 32 of the Destinos program.

• Honors Spanish IV

Recommended prerequisites for this course: Honors Spanish III with a final average of 80% or higher

Text Material used for this course: Destinos videos and audio compact discs, Destinos textbook and workbook/study guide II, a literature paperback book with selected short stories and non-fiction articles taken from magazines and additional sources.

Unique projects, expectations, field trips or requirements of this course: First semester includes two special projects. Students create, write and illustrate an original children's short story in Spanish. Secondly, students prepare interview questions, meet with and interview a person, whose native language is Spanish, and then write a report and orally explain to classmates about that individual. Second semester's project is a power point presentation for tourism. Students select a Spanish-speaking country not studied through the Destinos episodes. Students pretend to be a tourism agent from that country trying to attract tourists by educating them about many interesting aspects of that country.

Overview of Course Content

This course is a continuation of advanced study of Spanish through increasingly more difficult listening comprehension, reading passages, and speaking and writing topics. Students speak only Spanish in class, helping them to think in Spanish rather than English. This enables students to become more fluent and comfortable discussing a wide variety of fictional and non-fictional topics. By learning more advanced vocabulary, verb tenses, and grammatical structures, students increase their level of reading comprehension and the quantity and quality of writing in Spanish. They become well acquainted with the geography, culture, fine arts, economy, and history of Mexico from pre-Columbian times to the current day.

Mathematics

- **Advanced Functions and Modeling**

Recommended prerequisites for this course: Algebra I, Geometry and Algebra II

Text materials used for this course:

Overview of Course Content

Advanced Functions and Modeling provides students an in-depth study of modeling and analyzing functions. The curriculum includes analytic geometry, topics from trigonometry, and some advanced algebra topics. Students who enroll in Advanced Functions and Modeling should have successfully completed Algebra I, Algebra II, and Geometry and be proficient in the use of a graphics calculator. Advanced Functions and Modeling is a CP course and is designed either for juniors who will not be taking Calculus during their senior year or for seniors who have just completed Algebra I, Algebra II, and Geometry.

- **CP Accounting**

Recommended prerequisites for this course: None

Text Materials used for this course: Century 21 South-Western Accounting

Overview of Course Content

This course is designed to provide students a strong foundation in accounting principles. Students will learn what business transactions are and how accountants use a double-entry system (debits and credits) to keep track of these transactions. Next students will study the complete financial accounting cycle of recording transactions, payroll and taxes, preparing financial statements, and “closing the books” for small, single-owner service businesses. Students will be introduced to and apply industry-standard computer programs to perform recordkeeping and accounting procedures where applicable because comprehensive computer skills are vital to business and industry in our rapidly changing technological, global society. This course prepares students for post-secondary accounting courses. **This course is an elective and cannot be used to fill mathematics graduation requirements.**

- **CP Algebra I**

Recommended prerequisites for this course: Pre-Algebra

Text Materials used for this course: Algebra I (Larson)

Overview of Course Content

This course provides an introduction to the basic concepts of algebra. Students explore properties of real numbers, algebraic expressions, equations and inequalities, factoring, linear functions, quadratic functions, rational functions, radical functions, exponential functions, graphing techniques, systems of equations, and inequalities. Students will learn to use a graphing calculator to assist in graphing and interpreting data. This course may be a continuation of Algebra Concepts taught in the 8th grade.

Honors Algebra I

Recommended prerequisites for this course: Pre-Algebra

Text Materials used for this course: Algebra I (Larson)

Overview of Course Content

This is an accelerated, fast paced introduction to the concepts of algebra. Students explore properties of real numbers, algebraic expressions, linear, quadratic, exponential, rational, and radical functions, equations and inequalities, factoring, graphing techniques, and systems of equations are covered. Students will learn to use a graphing calculator to assist in interpreting data.

- **CP Algebra II**

Recommended prerequisites for this course: Algebra I and Geometry

Text Materials used for this course: Larson Algebra II

Unique projects, expectations, field trips or requirements of this course:

A graphics calculator (TI-83 or TI-84) is needed for this class.

Overview of Course Content

Students will study advanced algebraic concepts including functions, polynomials, rational expressions, systems of functions and inequalities, matrices, and counting methods and probability. Students will be expected to represent and interpret graphic, algebraic, numeric, tabular, and verbal models of relations and use those representations to solve problems. Practical applications and modeling will be emphasized. The CP level Algebra II course is most appropriate for students who intend to proceed to advanced functions and modeling and discrete math.

- **Honors Algebra II**

Recommended prerequisites for this course: Students should have completed Honors Algebra I and Honors Geometry with a grade of B or above.

Text Materials used for this course: Larson Algebra II

Unique projects, expectations, field trips or requirements of this course:

A graphics calculator (TI-83 or TI-84) is needed for this class.

Overview of Course Content

Students will study advanced algebraic concepts including functions, polynomials, rational expressions, systems of functions and inequalities, matrices, and counting methods and probability. Students will be expected to represent and interpret graphic, algebraic, numeric, tabular, and verbal models of relations and use those representations to solve problems. Practical applications and modeling will be emphasized. Appropriate technology will be used to facilitate learning and assessment. The honors level Algebra II course most appropriate for students whose intent to proceed to pre-calculus and calculus.

- **AP Calculus AB**

Recommended prerequisites for this course: Students should have completed Honors Pre-calculus with a grade of B or above.

Text Materials used for this course: Larson Calculus of a Single Variable AP Edition

Unique projects, expectations, field trips or requirements associated of this course: A graphics calculator (TI 83 or TI 84) is required for class. Students should be proficient in the use of their calculator. Students enrolled in this course are required to take the AP Calculus examination.

Overview of Course Content

This rigorous course is for students who have a strong foundation in algebra and trigonometry. The first semester focuses on a study of limits and their properties, and an in-depth study of differential calculus with an emphasis on derivatives and their applications. The second semester students will study the anti-derivative, techniques of integration, the definite integral, and applications of the integral. Appropriate technology will be used to facilitate learning and assessment.

- **Discrete Mathematics**

Recommended prerequisites for this course: Algebra I, Geometry, Algebra II and Advanced Functions and Modeling

Text Materials used for this course: College Algebra and Trigonometry

Unique projects, expectations, field trips or requirements associated of this course: A graphics calculator (TI 83 or TI 84) is required for class.

Overview of Course Content

The intent of a Discrete Math course is to foster mathematical maturity so that students can take the mathematical skills and facts from the prerequisite classes and apply them. The course stresses 5 important themes: combinational analysis, discrete structures, algorithmic thinking, applications in business and science word problems, and modeling. These themes are interwoven in the following topics; set theory, logic, probability, counting methods, quadratic and exponential functions, matrix algebra and elementary statistics.

- **CP Geometry**

Recommended prerequisites for this course: Algebra I

Text Materials used for this course: Geometry (Larson)

Overview of Course Content

This course introduces students to multi-dimensional shapes and their properties. Students learn proofs of relationships of shapes and the development of logical, progressive thinking. Extra attention is given to triangle and quadrilateral properties. Areas of plane figures, areas and volumes of solids, coordinate geometry, trigonometry, and transformations are also covered. The course includes work with radicals and algebraic solutions relating to solving geometric problems.

- **Honors Geometry**

Recommended prerequisites for this course: Algebra I

Text Materials used for this course: Geometry (Larson)

Unique projects, expectations, field trips or requirements of this course: Students are expected to read the text, take notes in class, and complete all assignments. A photo journal of geometric terms will be completed during the last six weeks.

Overview of Course Content

This course is an accelerated introduction to the concepts of geometry. This course introduces multi-dimensional shapes and their properties. Students learn advanced proofs of relationships of shapes and the development of logical, progressive thinking. Extra attention is given to properties of triangles and properties of quadrilaterals. Areas of plane

figures, areas and volumes of solids, coordinate geometry, trigonometry, and transformations are also covered. The course includes work with radicals and algebraic solutions relating to solving geometric problems.

- **Honors Pre-Calculus**

Recommended prerequisites for this course: Students should have completed Adv. Algebra II with a B or above.

Text Materials used for this course: Larson Precalculus with Limits

Unique projects, expectations, field trips or requirements of this course: A graphics calculator (TI-83 or TI-84) is needed for class. Students should be proficient in the use of their calculator.

Overview of Course Content

This course is designed specifically for students who plan to continue their study of mathematics with calculus. Pre-calculus provides students with an advanced study of trigonometry, advanced functions, analytical geometry, and data analysis in preparation for calculus. Application problems and modeling will be included throughout the course. Appropriate technology will be used to facilitate learning and assessment.

- **Trigonometry**

Recommended prerequisites for this course: Algebra I, Geometry, concurrent enrollment in Geometry is also acceptable

Textbook/Text Materials used for this course: Trigonometry, Fifth Edition, Larson and Hostetler.

Overview of Course Content

This course provides an in-depth exploration of trigonometry and its applications from both the classical and modern technological perspectives. The focus will be on applications involving trigonometric ratios, right triangles, oblique triangles, numeric integration, and identities. Curve sketching and properties of the graphs of trigonometric functions will be stressed.

Science

- **AP Biology**

Recommended prerequisites for this course: Completion of Chemistry I and Biology I and II with a grade no lower than B in those classes.

Text Materials used for this course: Campbell Biology 9th Edition

Unique projects, expectations, field trips or requirements of this course: Students must complete mandatory lab work as required by the AP Program. Students must use inquiry techniques to independently examine AP Biology topics. Students will be required to take the AP Exam for this course.

Overview of Course Content

AP Biology is an advanced course on the college level that studies all major aspects of biology. The course, as outlined by the College Board, covers molecules and cells, heredity and evolution, organisms and ecological concepts. Advanced lab techniques and reporting procedures are required. Students are required to take the AP Exam as their final exam.

- **CP Biology I**

Recommended prerequisites for this course: Physical Science is recommended

Text Materials used for this course: Modern Biology by Holt

Unique projects, expectations, field trips or requirements of this course: Safe and proper laboratory skills will be taught.

Overview of Course Content

CP Biology I concentrates on the scientific method, laboratory techniques and safety in the science class as students explore the cell and the structures and processes that make life possible. This will include cell division, plant and animal cell metabolism, heredity and DNA. Ecological concepts, classification and evolutionary topics will be covered to prepare students for the study of the six kingdoms of life in Biology II.

- **Honors Biology I**

Recommended prerequisites for this course: Physical Science is recommended

Text Materials used for this course: Modern Biology by Holt

Unique projects, expectations, field trips or requirements of this course: Various laboratory skills will be taught and laboratory exercises are an important component of this class.

Overview of course content

Honors Biology I takes an in-depth look at and concentrates on the scientific method, laboratory techniques and safety in the science class as we explore the cell and the structures and processes that must function to make life possible, including cell anatomy, cell division, photosynthesis, respiration, heredity and DNA. Ecological concepts, taxonomy and evolutionary topics will be covered to prepare students for the study of the kingdoms of life in Biology II.

- **CP Biology II**

Recommended prerequisites for this course: Successful completion of Biology I and Physical Science are recommended.

Text Materials used for this course: Modern Biology by Holt

Unique projects, expectations, field trips or requirements of this course: Projects in CP Biology II include leaf collections, insect collections and various animal dissections.

Overview of Course Content

CP Biology II concentrates on the 6 kingdoms of life including animals, plants, fungi, protista, and bacteria. The structures and their functions of these organisms will be emphasized in class and in laboratory activities. Various dissections will be done and proper lab techniques will be taught. Human anatomy and physiology will be covered including emphasis on the digestive, cardiovascular, nervous, and endocrine systems.

- **Honors Biology II**

Recommended prerequisites for this course: Successful completion of Biology I and Physical Science are recommended.

Text Materials used for this course: Modern Biology by Holt

Unique projects, expectations, field trips or requirements of this course: Projects in Honors Biology II include leaf collections, insect collections and various animal dissections.

Overview of Course Content

Honors Biology 2 is an in-depth survey course of all the kingdoms of life. Kingdoms Bacteria, Protista, Fungi, Plantae, and Animalia will be studied. Organisms will be observed and/or dissected to explore the structures and functions of important body parts. Emphasis will be placed upon human anatomy and physiology and students will be prepared for Advanced Placement Biology.

• **CP Chemistry I**

Recommended prerequisites for this course: Physical Science, Algebra I

Text Materials used for this course: Modern Chemistry (by Davis, Metcalfe, Williams, & Castka), Modern Chemistry Workbook, and ChemFile Laboratory Experiments Manual

Unique projects, expectations, field trips or requirements of the course: Students are expected to write a 3-4 page APA-formatted research paper. They should be able to format word documents and PowerPoint presentations. Furthermore, students are expected to maintain safety conditions during laboratory experiments.

Overview of Course Content

Students in CP Chemistry I gain an understanding of basic concepts in chemistry and of the history of scientific discovery. Concepts such as the scientific method, the structure of the atom, trends in the periodic table, how molecules are formed, chemical nomenclature, stoichiometry, and solution chemistry are explored throughout the year. The students learn about writing in science by writing formal lab reports and a short research paper. Furthermore, students apply the concepts they have learned by performing labs in a safe, and efficient, manner. CP Chemistry I evaluations have fewer open-ended questions, and student answers are not expected to be as detailed. Projects have fewer requirements for this course.

• **Honors Chemistry I**

Recommended prerequisites for this course: Physical Science, Algebra I

Text Materials used for this course: Modern Chemistry (by Davis, Metcalfe, Williams, & Castka), Modern Chemistry Workbook, and ChemFile Laboratory Experiments Manual

Unique projects, expectations, field trips or requirements of the course: Students are expected to write a 4-5 page APA-formatted research paper. They should be able to format word documents and PowerPoint presentations. Furthermore, students are expected to maintain safety conditions during laboratory experiments.

Overview of Course Content

Students in Honors Chemistry I gain an understanding of basic concepts in chemistry and of the history of scientific discovery. Concepts such as the scientific method, the structure of the atom (including basic quantum theory), the periodic table, how molecules are formed and structured, chemical nomenclature, oxidation states, stoichiometry, and solution properties/chemistry are explored throughout the year. The students learn about writing in science by writing formal lab reports and a research paper. Furthermore, students apply the concepts they have learned by performing labs in a safe, and efficient, manner. Students in Honors Chemistry I are expected to gain a deeper understanding of the materials. Their evaluations have more open-ended questions, and student answers are expected to be more detailed. Projects have more requirements for the honors level of this course.

- **Honors Chemistry II**

Recommended prerequisites for this course: Chemistry I, Algebra I

Text materials used for this course: Modern Chemistry (by Davis, Metcalfe, Williams, & Castka), Modern Chemistry Workbook, and ChemFile Laboratory Experiments Manual

Unique projects, expectations, field trips or requirements of the course: Students are expected to recall and utilize concepts learned in Chemistry I. They are expected to create and perform their own controlled experiments concerning acid/base chemistry. Students should be able to format word documents and PowerPoint presentations.

Overview of Course Content

Honors Chemistry II is a continuation of the materials from Chemistry I. Concepts such as kinetic molecular theory, gas laws, properties of the states of matter, acids and bases, thermochemistry, rate laws, equilibria, redox reactions, and basic organic chemistry are explored throughout the year. These concepts build on the materials learned in the previous year. The students learn about writing in science by writing formal lab reports. Furthermore, students apply the concepts they have learned by performing labs in a safe, and efficient, manner. They also are expected to create and perform their own controlled experiments, applying concepts learned in this course. Honors Chemistry II evaluations incorporate a variety of question types, including short answer and essays.

- **CP Environmental Science**

Recommended prerequisites for this course: Physical Science and Biology I

Text materials used for this course: Your World Your Turn by Withgott

Overview of Course Content

Environmental Science is an elective science course. Students will learn about their environment and many of the current issues faced by environmentalists. Topics covered include world biomes, hazards, demographics, pollution, climate change, worldwide issues and possible solutions to the Earth's problems. Outdoor lab work on the nature trail and exploration of the Greenfield environment will be conducted.

- **Physics**

Recommended prerequisites for this course: Algebra and Geometry

Text materials used for this course: currently under review

Overview of Course Content

Physics is the study of the way the universe works. Conceptual understanding of the subject will be emphasized. Although mathematical relationships will be used, they will not be the focus of the course. The topics covered will include motion, forces, gravity, energy, and momentum. The course may also include a study of heat, fluids, waves, sound, light, optics, electricity, magnetism, and/or atomic structure. The study of physics is a valuable part of the general education of any student. Learning to examine the parts of a problem in order to find solution will be useful throughout a person's life. Classroom activities will include laboratory experiment, classroom discussions/lectures, readings, and assessment activities.

Social Studies

- **CP Ancient World History**

Recommended prerequisites for this course: none

Text Materials used for this course: Ellis and Esler. World History - Connections to Today (Prentice Hall)

Overview of Course Content

Ancient world history is a semester-long course. It begins with early man and progresses until the end of the Crusades (circa 1300). The flow of world history and cause and effect of different eras and cultures is the core of the course.

- **Honors Ancient World History**

Recommended prerequisites for this course: none

Text Materials used for this course: Ellis and Esler. World History = Connections to Today (Prentice Hall)

Overview of Course Content

Ancient world history is a semester-long course. It begins with early man and progresses until the end of the Crusades (circa 1300). The flow of world history and cause and effect of different eras and cultures is the core of the course.

The honors level course is distinguished from the CP level in the level of analysis required on tests. Honors level students are expected to demonstrate a deeper and more complex understanding of course content.

- **Consumer Economics CP**

Recommended prerequisites for this course: None

Text Materials used for this course:

South-Western Cengage Learning Personal Financial Literacy

Unique projects, expectations, field trips or requirements of the course: A research project is required that must be in prepared in the MLA format. The project will include the research of a career choice, as well as the completion of a W-4, I-9, 1040EZ, and a detailed personal financial budget. Also, the students are required to make oral presentation on various subjects throughout the year.

Overview of Course Content

Consumer economics allows the student to explore personal financial decision-making. It also helps individuals use skills in money management, record-keeping, banking, and investing to become wise, successful, and knowledgeable consumers, savers, investors, users of credit, money managers, and to be participating members of a global workforce and society. The course accomplishes this by the study of basic concepts involving economics, insurance, banking, credit, payroll and taxes, stocks, and bonds. The intent of this course is to inform students how individual choices directly influence occupational goals and future earnings potential. Successful money management is a disciplined behavior and much easier when learned earlier in life. Activities will include evaluating career choices, setting personal goals, preparation of budgets, consumer skills, checking accounts, investment applications, comparison-shopping, financing their first car, advertising research, standard of living analysis, renting an apartment, comparison of housing options, and recognize rights and responsibilities of consumers.

- **AP European History**

Recommended prerequisites for this course: Advanced Placement courses are recommended for students in grades 10 and higher

Text Materials used for this course: Merriman, John. A History of Modern Europe from the Renaissance to the Present

Primary source documents and readings

Unique projects, expectations, field trips or requirements of the course: This is a college level course and requires a great deal of reading and writing to prepare for the national exam given in the spring. Students enrolled in this class are required to take the comprehensive AP exam for the course.

Overview of Course Content

AP European History is a college-level survey course. The extensive reading and analysis of documents enables the student to grasp the flow of European history. The cultural, intellectual, political, and diplomatic history along with the events of 13 different time periods from the Renaissance to 2000 are covered.

- **CP Government and Economics**

Recommended prerequisites for this course: none

Text materials for this course: Magruder's American Government by William A. McClenaghan

Overview of Course Content

This course is designed to illuminate, engage, and explore the fundamental concepts related to government and, albeit briefly, economics. Time will be spent examining a variety of forms of government and economics but primacy will be given to the political system of the United States of America and capitalism.

After successful completion of this course, students will have a working knowledge and understanding of the foundations of American government, political behavior, the legislative, executive and judicial branches of government and comparative political and economic systems.

- **Honors Government and Economics**

Recommended prerequisites for this course: There is no prerequisite: however, it is primarily a senior-level course designed to help prepare students for college level basic American political science courses.

Text materials for this course: Magruder's American Government by William A. McClenaghan

Unique projects, expectations, field trips or requirements of this course: Outside reading assignments related to the coursework is assigned six to eight times during the course. Knowledge of current affairs as they relate to the concepts of government is required.

Overview of Course Content

This course provides a broad survey of the nature of the federal government with some attention place upon state and local governments and how the three relate to each other. Basic constitutional principles, the three branches of government, the electoral process, political behavior and civil rights are studied in fairly great detail and the interrelationships among the concepts are reviewed. Basic economic principles will be introduced especially as they relate to the government and the political process. Analysis of how the political system is affected by current problems in our society is a point of emphasis. Government/Economics is a graduation requirement.

- **Introduction to Mythology**

Recommended prerequisites for this course: none

Text materials for this course: instructor selected readings

Overview of Course Content

This course is an introduction to mythology from around the world. Students will read and discuss stories dealing with gods, heroes, and adventures, getting a sense of how myths are developed over time to explain events and to serve as lessons for human behavior. Students will learn how to compare and contrast mythology from various cultures as well as how to recognize and explain allusions to mythology in popular culture, art, literature, music, and advertising. Throughout the year, students will be given the opportunity to apply their knowledge in the construction of their own myths.

- **Introduction to Philosophy**

Recommended prerequisites for this course: none

Text materials for this course: instructor selected readings

Overview of Course Content

The overarching goal of this course is to teach students how to think and develop and present arguments using logic and reason. This goal will be accomplished by introducing students to some of the most prominent people, movements, and methods of philosophy (primarily Western philosophy) from ancient times to the present. We will examine the fundamental problems that philosophers have dealt with, as well as the various approaches and arguments they have used. Students will become familiar with the terminology used in philosophical discourse, learn about the historical development of the discipline, and develop their own skills for philosophical argumentation.

- **AP Psychology**

Recommended prerequisites for this course: Biology I and Biology II

Text Materials used for this course: Myers Psychology for AP, Forty Studies That Changed Psychology, The Quiet Room and summer reading selections

Unique Projects, expectations, field trips or requirements associated with this course: This is a college level course and requires a great deal of reading and application of concepts to prepare for the national exam. There is one required summer reading selection for this course. Students enrolled in this class are required to take the comprehensive AP exam for this course.

Overview of Course Content

Content areas covered in the fall semester of this course include the history of psychology, theoretical orientations, research methods and statistics, biological bases of behavior, neural processing and the endocrine system, sensation and perception, states of consciousness, learning, memory, thinking, problem solving, creativity and language and motivation. Content areas covered in the spring semester include emotions, stress and health, developmental psychology, personality, intelligence, abnormal psychology, treatment of psychological disorders, and social psychology. Students enrolled in this class will engage in project based learning activities for each unit in addition to traditional assessment methods such as tests and quizzes.

- **AP United States History**

Recommended prerequisites for this course: It is strongly recommended that those students who wish to enroll in this course and have a successful experience will meet at least two of the following criteria: a minimum PSAT score of 50 or SAT score of 500 on the critical reading section of the exam, a minimum grade of B+ in the previous course in History and recommend of the teacher of a previous social studies course.

Text Materials used for this course: Magruder's American Government and additional selections such as The Federalist Papers, Democracy in America and The Jungle. AP U.S. History—a Crash Course will be used as a review source.

Unique Projects, expectations, field trips or requirements of this course: Group projects will be assigned both semesters. Students will be expected to cooperate with classmates on all projects. Class meetings outside of the regular class period will be required especially prior to the midterm exam and the Advanced Placement exam in May.

Overview of Course Content

This course is an overview of United States History beginning with the first settlement of the Western Hemisphere and concluding with the most recent historical period with 1980 until present time. The themes of United States history covered include: identity, peopling, work, exchange and technology. politics and power, environment and geography, America in the world, and ideas, beliefs and culture. Emphasis is not placed upon memorization of facts as much as gaining the ability to use historical thinking skills including chronological reasoning, comparison and contextualization, crafting of historical arguments from historical evidence and historical interpretation and synthesis. United States History is required for graduation. Advanced Placement History is a 1.5 unit course.

- **Honors United States History**

Recommended prerequisites for this course: Honors World History

Text materials used for this course: The Americans, McDougal and Littell

Overview of Course Content:

Honors United States History is a survey course that discusses major events in colonial times to the 21st Century. The course is an in-depth look at major events, people, legislation and reforms in the United States in different periods of United States history.

- **CP United States History**

Recommended prerequisites for this course: none

Text materials used for this course: The Americans, McDougal and Littell

Overview of Course Content:

CP United States History is a survey course that discusses major events in colonial times to the 21st Century. Students will develop an understanding of the importance of the United States in different historical periods.

- **CP World History**

Recommended prerequisites for this course: none

Text materials used for this course: World History: Connections to Today, Prentice Hall

Overview of Course Content:

CP World History is a basic survey course from the Renaissance to the 21st Century. The course provides a general view of civilizations throughout modern history.

- **Honors World History**

Recommended prerequisites for this course: Honors level English courses

Text materials used for this course: World History: Connections to Today, Prentice Hall

Overview of Course Content:

Honors World History is a basic survey course from the Renaissance and Enlightenment to the 21st Century. The course will require students to understand world civilizations and the influences of important events and people to our modern world.

Technology and Computer

- **Computer Engineering**

Recommended prerequisites for this course: Geometry, Algebra I, an introductory course in Java, Visual Basic, C++/#, or Python

Text Materials used for this course: none

Overview of Course Content

This course covers engineering design from theory to application. Topics in aviation, traffic flow, structural integrity, and automated manufacturing are just a few areas covered. The internal workings of modern computer and tablet devices are studied and students put their knowledge to work by building and refurbishing technology for school use. Basic software design, cryptosystems, and logical structures are stressed.

- **Advanced Programming Techniques**

Recommended prerequisites for this course: Geometry, Algebra I, an introductory course in Java, Visual Basic, C++/#, or Python

Textbook/Text Materials used for this course: none

Overview of Course Content

This course teaches programming for a graphic user interface with Visual C++/# in a Linux environment, Visual Basic, Java/HTML, or Python. It may be tailored toward the Advanced Placement exam in computer science upon request.

- **Computer Business Applications**

Recommended prerequisites for this course: Students are expected to have achieved a basic competency in keyboarding.

Textbook/Text Materials used for this course: Microsoft Excel: A Guide To Microsoft Office 2007, Lawrenceville Press, Microsoft Word and Microsoft PowerPoint: Microsoft Official Academic Course 2007 - Microsoft Office System, John Wiley & Sons, Inc.

Overview of Course Content

This course prepares students not only for coursework using Microsoft Office, but also for work in an online course setting. Students will use both hard-copy texts and on-screen .pdf files to work individually under the direct supervision of an instructor. Students gain proficiency in the three primarily used Microsoft Office business applications. They complete units in Microsoft Word, Excel, and PowerPoint.

- **Digital Publishing**

Recommended prerequisites for this course: Students are expected to have basic keyboarding skills and be comfortable with standard word processing tools prior to enrolling in this course.

Text materials used for this course: Introduction to Desktop Publishing with Digital Graphics, Glencoe McGraw-Hill.

Overview of Course Content

The purpose of this course is to teach students how to prepare both hard copy and on-line publications. These will be completed using Adobe Illustrator and Microsoft Publisher software packages. Additional software such as Microsoft PowerPoint, Adobe PhotoShop, HyperStudio, and Microsoft Photo Editor will be used to design enhanced graphics. Audacity will be introduced as a tool for editing and mixing music files. Windows Movie Maker will be used for creating digital video discs that incorporate still shots, video clips, and edited/enhanced soundtracks. Students will also learn basic web design using hypertext mark-up language (html).

- **Lab Assistant - Technology**

• **Recommended prerequisites for this course:** Recommendation of Technology Department staff

Textbook/Text Materials used for this course: none

Overview of Course Content

This course involves assisting technology instructors to gain a more detailed look at the world of technology, especially concerning hardware and operating systems as pertains to the needs of an educational setting.

Recommendation of instructor(s) required for enrollment in this course.

- **Programming: Visual BASIC**

Recommended prerequisites for this course: none

Text Materials used for this course: none

Overview of course content

This course teaches introductory systems approach to programming in a Windows environment. Object-oriented programming is stressed and screen placement and algorithm development are also covered.

- **Robotics**

Recommended prerequisites for this course: Geometry, Algebra I, an introductory course in Java, Visual Basic, C++, or Python

Textbook/Text Materials used for this course: none

Overview of Course Content

This hands on course gives students a direct causal relationship between programming and real world applications. The Lego Mindstorms for Education system is used to learn direct and automated systems.

Electives

- **Art**

Recommended prerequisites for this course: Art in the middle and lower school levels

Text materials used for this course: Exploring Visual Design: The Elements and Principles

Overview of Course Content

Students will gain an appreciation of all art forms and cultivate knowledge of artistic techniques. They will develop artistic skills and draw parallels between literature, music and art. They will be expected to promote and display their art at the annual Fine Art Exhibit at the Arts Council of Wilson. The course will introduce art history and discuss famous artists.

- **Chorus**

Recommended prerequisites for this course: none

Textbook/Text Materials used for this course: Choral music

Unique projects, expectations, field trips or requirements of the course: Students present concerts in December and in the spring. Often, these concerts will be presented off campus as well. Students also provide music at the Baccalaureate service and Graduation.

Overview of Course Content

Students develop music reading skills, vocal skills and musicianship. Students build self-confidence and an appreciation for excellence through performance. Students develop an appreciation for many styles of choral music.

- **College Awareness**

Recommended prerequisites for this course: none

Text materials used for this course: various teacher selected web and print resources

Unique projects, expectations, field trips or requirements of the course: Students are required to participate in field trips to college campuses and will visit a minimum of six campuses.

Overview of Course Content

The College Awareness course introduces students to the college planning process. Students engage in activities designed to increase self-awareness and develop time management, study and problem solving skills. Students will create a resume, learn soft skills, and explore a variety of college campuses, both virtually and in person.

- **Film Appreciation**

Recommended prerequisites for this course: none

Textbook/Text Materials used for this course: none

Overview of Course Content

Film genres are introduced and discussed with emphasis on the people who have had a major impact in filmmaking. Such icons may include but are not limited to Charlie Chaplin, Douglas Fairbanks, Alfred Hitchcock, Humphrey Bogart, Ingrid Bergman, and Marilyn Monroe.

- **Music History and Appreciation**

Recommended prerequisites for this course: none

Textbook/Text Materials used for this course: Music! Its Role and Importance in Our Lives

Overview of Course Content

Students are presented a program that offers them opportunities to create, perform, listen to, and analyze music. Students survey music from diverse cultures around the world, studying how music says who we are as human beings and how we express ourselves through music. Respect for human musical achievements and knowledge of their own musical heritage are developed.

- **Health**

Recommended prerequisites for this course: none

Text materials used for this course: Glencoe Health

Overview of Course Content

The goal of this course is to prepare students for the obstacles and issues that teenagers have to face every day. Topics covered throughout the year include health, nutrition, decision making, tobacco, alcohol, drugs, sexually transmitted diseases and disorders.

- **History of Film**

Recommended prerequisites for this course: none

Textbook/Text Materials used for this course: none

Overview of Course Content

History and development of the film industry and its impact and reflection of society are emphasized. Students learn to develop an appreciation for film, regardless of preference, and to delve into technical aspects of film production.

- **Physical Education**

Recommended prerequisites for this course: none

Text materials used for this course: none

Overview of Course Content

This class will keep the students physically active through a program of running and team sports. The class will keep the students physically active while working with the demands of the current sports season. Students will learn how keeping physically active sets them up for a healthy lifestyle. We will stress teamwork and sportsmanship through all team sports activities.

- **Running and Conditioning**

Recommended prerequisites for this course: none

Text materials used for this course: none

Overview of Course Content

The class will use the school's weight room to develop a strength training program tailored for each student. We will use free weights along with different machines to build and maintain a strength program for each student. The class will be involved in distance running, plyometrics, and other activities tailored to meet the needs of each student. The class will use the weight room, gym, soccer field, and verta max jumping system for each student.

- **Yearbook**

Recommended prerequisites for this course: Digital Publishing (required)

Textbook/Text Materials used for this course: Materials on-line from the yearbook publishing company

Unique projects, expectations, field trips or requirements associated with the course that students should be aware of when registered for the course:

Students are expected to sell advertising, take assigned photos, design and layout pages.

Overview of Course Content

Yearbook provides a unique opportunity for students to design, finance and produce the school's yearbook. Students have complete ownership of the process. They must take pictures and collect information for the book as well as selling advertising. The book is designed and put together on-line by the class. This process helps students learn the importance of budgeting, meeting deadlines and creating a book to appeal to all grade levels.

Projected Wilson Community College Courses Available for Dual Enrollment

Students should be aware that the courses may be offered in a face to face format on the Greenfield campus or online, depending upon the number of students enrolled. This is a decision made by Wilson Community College. The course calendar and starting and end dates of the course may be different from the Greenfield School calendar. Additional fees and textbook charges may apply.

College Transfer Pathways

ENG 111	Expository Writing (3)
MAT 161	College Algebra (3)
MAT 171	Precalculus Algebra (3)
ACA 122	College Transfer Success (1)
SOC 210	Introduction to Sociology (3)

Career and Tech Pathways

Basic Welding

WLD 115 - 1st

Year	SMAW (Stick) Plate (5)	Will be offered 7:30 -8:45 M-F
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WLD 121 - 2nd

year	GMAW (MIG) Plate (4)	Will be offered 1:00 -2:15 M-F
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Early Childhood

EDU 119	Intro to Early Childhood Education (3)
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EDU 145	Child Development II (3)
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EDU 146	Child Guidance (3)
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Electrical Tech

ELC 112 - 1st year	DC/AC Electricity (5)	Will be offered 7:30 -8:45 M-F
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ELC 118 - 1st year	National Electrical Code (2)	Will be offered 7:30 -8:45 M-F
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ELC 113 - 2nd

Year	Basic Wiring (4)	Will be offered 1:00 -2:15 M-F
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Criminal Justice

CJC 111	Introduction to Criminal Justice (3)	1st year
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CJC 112	Criminology (3)	1st year
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CJC 131	Criminal Law (3)	2nd Year
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Medical Office

OST 141	Medical Terminology I (3)	1st year
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OST 142	Medical Terminology II (3)	2nd Year
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OST 148	Medical Legal Issues (3)	2nd Year
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Paralegal

LEX 110	Intro to Paralegal Study (2)	1st Year
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The mission of Greenfield, a non-sectarian independent school, is to promote the development of the total student:

- Academically through a balanced, challenging college preparatory program
- Socially through leadership opportunities, Extra-curricular activities and community service
- Aesthetically through a program fine arts
- Physically through interscholastic athletics and a physical education
- Morally through affirmation of honesty, integrity, responsibility, tolerance and the American ideals of freedom and democracy.

