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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
4	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
2	Additional units from among English, mathematics, science, social studies, or foreign language courses
3	Electives



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English

- **Name of Course: English I Honors**

Recommended Prerequisites: Eighth grade Reading, Writing, Grammar.

Course Description: In Honors English I, 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. Students will be challenged by a rigorous reading schedule, more difficult texts, higher expectations on graded work, and a faster paced classroom environment than the College Prep Level Course. The course will be designed for students with an excellent work ethic and strong English skills.

Materials/Text: *Prentice Hall Literature: Language and Literacy*; personal laptop computer; other texts (novels, plays, essays, etc.) chosen at the discretion of the teacher.

- **Name of Course: English I - CP**

Recommended Prerequisites: Eighth grade Reading, Writing, Grammar

Course Description: In English I, 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.

Materials/Text: *Prentice Hall Literature: Language and Literacy*; personal laptop computer; other texts (novels, plays, essays, etc.) chosen at the discretion of the teacher.



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- **Name of Course: English II Honors**

Recommended Prerequisites: English I

Course Description: Honors English II is an advanced survey of British literature. Students will read critically from a variety of texts ranging from early Anglo-Saxon epics to modern novels. They will sample all traditional genres: short fiction, nonfiction, novels, poetry, and drama. They will demonstrate their mastery of subject matter with written responses; some formal and some creative. The written evaluations will include critical responses to literature to prepare them for Advanced Placement courses in their final two years of high school.

Materials/Text: *Prentice Hall Literature: The British Tradition* and selected novels

- **Name of Course: English II - CP**

Recommended Prerequisites: English I (CP)

Course Description: 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 British 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 in 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.

Materials/Text: *Prentice Hall Literature: The British Tradition*; personal laptop computer; other texts (novels, plays, essays, etc.) chosen at the discretion of the teacher.

- **Name of Course: AP English Language and Composition**

Recommended Prerequisites: English II (CP) or Honors English II

Course Description: 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 and 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.



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Materials/Text: *The Language of Composition*; personal laptop computer; other texts (novels, plays, essays, etc.) chosen at the discretion of the teacher.

- **Name of Course: English III - CP**

Recommended Prerequisites: English I & English II.

Course Description: English III (CP) is a survey of American literature. Students will read critically from a variety of texts ranging from early Native American origin stories to modern novels. They will sample all traditional genres: short fiction, nonfiction, novels, poetry, and drama. Student writing will begin with a focus on sentence structure and move to paragraphs and essays as an acceptable level of mastery is achieved.

Materials/Text: *Prentice Hall Literature: The American Experience* and selected novels.

- **Name of Course: AP English Literature and Composition**

Recommended Prerequisites: English III

Course Description: Advanced Placement Literature and Composition is a college-level course that challenges the students' ability to take a critical approach to literature, composition and thought. Students will read from a variety of texts from an array of cultures and time periods. They will sample all traditional genres: short fiction, nonfiction, novels, poetry, and drama. Students will gain an understanding of literary devices and their usage to enhance a work. Students will learn how to write about literature in a way that conveys a true grasp of techniques chosen by the author and a full understanding of the theme illustrated by the work.

Materials/Text: *Perrine's Literature: Structure, Sound, and Sense* and selected novels.

- **Name of Course: English IV - CP**

Recommended Prerequisites: English III

Course Description: English IV (CP) is a survey of world literature. Students will read critically from a variety of texts ranging from early epics to modern novels. They will learn about cultures around the world through representative texts. They will sample all traditional genres: short fiction, nonfiction, novels, poetry, and drama. Student writing will begin with a focus on sentence structure and move to paragraphs and essays as an acceptable level of mastery is achieved.

Materials/Text: *Prentice Hall Literature: World Masterpieces* and selected novels.



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Mathematics

- **Name of Course: Algebra I Honors**

Recommended prerequisites for this course: Pre-Algebra

Course Description: 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.

Materials/Text: *Algebra I* (Larson).

- **Name of Course: Algebra I - CP**

Recommended Prerequisites: Algebra Concepts or Pre-Algebra.

Course Description: This course introduces 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 interpret data. This course may be a continuation of Algebra concepts taught in the 8th grade.

Materials/Text: *Algebra I* (Larson).

- **Name of Course: Geometry Honors**

Recommended prerequisites: Algebra I

Course Description: 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.

Materials/Text: *Geometry* (Larson).

- **Name of Course: Geometry - CP**

Recommended prerequisites: Algebra I

Course Description: 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,



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

Materials/Text: *Geometry* (Larson).

- **Name of Course: Algebra II Honors**

Recommended prerequisites: Honors Algebra I and Honors Geometry with a grade of B or above.

Course Description: 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.

Materials/Text: *Algebra II* (Larson).

- **Name of Course: Algebra II - CP**

Recommended prerequisites: Algebra I and Geometry

Course Description: 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.

Materials/Text: *Algebra II* (Larson).

- **Name of Course: MAT 171 – Pre-Calculus/Algebra**

Recommended prerequisites: Algebra II

Course Description: This course is offered through Wilson Community College for college credit. It is designed to develop an understanding of topics which are fundamental to the study of Calculus. Emphasis is placed on solving equations and inequalities, solving systems of equations and inequalities, and analysis of functions (absolute value, radical, polynomial, rational, exponential, and logarithmic) in multiple representations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to algebra-related problems with and without technology.



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Materials/Text: Students will be required to purchase access to the website which contains the virtual textbook (*Precalculus: Graphs and Models; A Right Triangle Approach*) and online assignments. Students will also be required to have a TI-84 (preferred), TI-83, or TI-Nspire graphing calculator.

- **Name of Course: MAT 172 – Pre-Calculus/Trigonometry**

Recommended prerequisites: MAT 171

Course Description: This course is offered through Wilson Community College for college credit. It is designed to develop an understanding of topics which are fundamental to the study of Calculus. Emphasis is placed on the analysis of trigonometric functions in multiple representations, right and oblique triangles, vectors, polar coordinates, conic sections, and parametric equations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to trigonometry-related problems with and without technology.

Materials/Text: Students will be required to purchase access to the website which contains the virtual textbook (*Precalculus: Graphs and Models; A Right Triangle Approach*) and online assignments. Students will also be required to have a TI-84 (preferred), TI-83, or TI-Nspire graphing calculator.

- **Name of Course: MAT 271 – Calculus I**

Recommended prerequisites: MAT 171 & MAT 172

Course Description: This course is offered through Wilson Community College for college credit. It is designed to develop the topics of differential and integral calculus. Emphasis is placed on limits, continuity, derivatives and integrals of algebraic and transcendental functions of one variable. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to derivative-related problems with and without technology.

Materials/Text: *APEX Calculus, Version 3, Volume 1*. Students will be required to have a TI-84 (preferred), TI-83, or TI-Nspire graphing calculator.



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- **Name of Course: MAT 272 – Calculus II**

Recommended prerequisites: MAT 271

Course Description: This course is offered through Wilson Community College for college credit. It is designed to develop advanced topics of differential and integral calculus. Emphasis is placed on the applications of definite integrals, techniques of integration, indeterminate forms, improper integrals, infinite series, conic sections, parametric equations, polar coordinates, and differential equations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to integral-related problems with and without technology.

Materials/Text: *APEX Calculus, Version 3, Volume 2*. Students will be required to have a TI-84 (preferred), TI-83, or TI-Nspire graphing calculator.

- **Name of Course: Advanced Functions and Modeling - CP**

Recommended prerequisites: Algebra I, Geometry and Algebra II.

Course Description: 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 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.

Materials/Text: *College Algebra and Trigonometry*. Students will be required to have a TI-84 (preferred), TI-83, or TI-Nspire graphing calculator.



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Social Studies

- **Name of Course: World History I Honors**

Recommended Prerequisites: none

Course Description: This course begins with the beginning of recorded time and concludes at 1450 AD. The course emphasizes the origins of man, the development of civilizations, cultures, empires and establishment of nations. The world's major religions are studied in-depth. This is an overview of events, historical concepts, and themes. Students are expected to understand the flow of history and how interconnected cultures, religions and politics are. Cause and effect, continuity and the personalities that shaped the world are stressed. Sourcing skills for primary and secondary sources are introduced.

Materials/Text: Ellis and Esler. *World History – Connections to Today*. (Prentice Hall).

- **Name of Course: World History I - CP**

Recommended Prerequisites: none

Course Description: World History I begins with the beginning of recorded time and concludes at 1450 AD. The course emphasizes the origins of man, the development of civilizations, cultures, empires and establishment of nations. The world's major religions are studied in-depth. This is an overview of events, historical concepts, and themes. Students are expected to understand the flow of history and how interconnected cultures, religions and politics are. Cause and effect, continuity and the personalities that shaped the world are stressed. Primary and secondary sources are introduced.

Materials/Text: Ellis and Esler. *World History – Connections to Today*. (Prentice Hall).

- **Name of Course: World History II Honors**

Recommended Prerequisites: World History I

Course Description: World History II covers the period from 1450 AD to the present. The course is an overview of events, historical concepts, and themes. Students are expected to understand the flow of history and how interconnected the cultures, religions and politics of various regions and countries are. Cause and effect, continuity and the personalities that shaped the world are stressed. Students are assessed through quizzes, independent work, and tests. Independent research and use of documents as sources are required.

Materials/Text: Ellis and Esler. *World History – Connections to Today*. (Prentice Hall).



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- **Name of Course: World History II - CP**

Recommended Prerequisites: World History I

Course Description: World History II covers the time period from 1450 AD to the present. The course is an overview of events, historical concepts, and themes. Students are expected to understand the flow of history and how interconnected the cultures, religions and politics of various regions and countries are. Cause and effect, continuity and the personalities that shaped the world are stressed. Students are assessed through quizzes, independent work, and tests.

Materials/Text: Ellis and Esler. *World History – Connections to Today*. (Prentice Hall).

- **Name of Course: AP European History**

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

Course Description: 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.

Materials/Text: Merriman, John. *A History of Modern Europe from the Renaissance to the Present*.

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.

- **Name of Course: AP United States History**

Recommended prerequisites: 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 a recommendation from the teacher of a previous social studies course.

Course Description: Many people view history merely as a set of dates and facts to be memorized, but history is *much* more than that. History is an organic and ever-changing discipline, periodically discovering new evidence and revising old commonly held beliefs. It's not enough to learn history itself; one must learn *from* history the true essence of the human experience. To accomplish this goal, students will learn and apply historical thinking skills such as: chronological reasoning, comparison and contextualization. This course is designed for that purpose. The goal of this course is preparation for the AP® Exam in the spring.



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Through this course, students will be provided with content, practical knowledge of U.S. history, practice in critical thinking activities, and experience in effective writing techniques that will better prepare them for not only the AP Exam but also their future educational areas. This course is divided into periods of time and emphasizes themes throughout American history. Examples of these themes are the American identity, America in the world, and culture and society. This course will be rigorous, but it will also be enjoyable. Hard work and dedication will be essential to success. Students will be quizzed frequently on the previous day's lesson and reading. Class meetings outside of the regular class period will be required especially prior to the Advanced Placement exam in May.

Materials/Text: *The American Pageant*, and *AP U.S. History—a Crash Course* will be used as a review source.

- **Name of Course: US History - CP**

Recommended Prerequisites: Recommended prerequisites for this course: none. However, students must understand this course is designed to prepare them for a college level course in United State History.

Course Description: CP United States History is a survey course that discusses major events from the Colonial Era to the 21st Century. Students will develop an understanding of the importance of the United States in different historical periods.

Materials/Text: *The Americans*, (McDougal and Littell).

- **Name of Course: Government and Economics Honors**

Recommended Prerequisites: None

Course Description: This course is designed to illuminate, engage, and explore the fundamental concepts related to government and economics. Time will be spent examining a variety of forms of government and economics. Approximately two-thirds of the year will be spent covering government and one-third covering economics. The government portion of the course will focus on basic constitutional principles, the three branches of government, the electoral process, and political behavior. The economics portion, which is approximately 1/3 of the course, will cover personal financial literacy, microeconomics and macroeconomics.

Materials/Text: *Magruder's American Government*, (McClenaghan).



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- **Name of Course: Government & Economics - CP**

Pre-requisites: None

Course Description: This course is designed to illuminate, engage, and explore the fundamental concepts related to government and economics. Time will be spent examining a variety of forms of government and economics. Approximately two-thirds of the year will be spent covering government and one-third covering economics. The government portion of the course will focus on basic constitutional principles, the three branches of government, the electoral process, and political behavior. The economics portion, which is approximately 1/3 of the course, will cover personal financial literacy, microeconomics and macroeconomics.

Materials/Text: *Magruder's American Government*, (McClenaghan).



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Science

- **Name of Course: Biology Honors**

Recommended Prerequisites: none

Course Description: Honors Biology takes an in-depth look at and concentrates on the scientific method and laboratory techniques in the study of cellular structures and functions, cell processes, heredity and evolution and DNA. Ecology, taxonomy, and a survey of the kingdoms of life are examined.

Materials/Text: *Modern Biology* by Holt.

- **Name of Course: Biology - CP**

Recommended Prerequisites: none

Course Description: Biology (CP) concentrates on the scientific method, laboratory skills and safety in the science class as students explore cells and their structures and functions. This will include covering cell metabolism, plant and animal differences, heredity, DNA, and evolution. Ecological concepts and classification will be introduced to prepare students for future studies in zoology and botany.

Materials/Text: *Modern Biology* by Holt

- **Name of Course: Advanced Placement Biology**

Recommended Prerequisites: Biology and Chemistry with no grade lower than a B.

Course Description: AP Biology is an advanced course on the college level that studies all the major aspects of biology. The course, as outlined by the College Board, covers molecules and cells, heredity and evolution, organisms, selected human systems and ecological concepts. Advanced lab techniques and reporting are required. Students are required to take the AP Exam at the conclusion of the course.

Materials/Text: *Biology in Focus 2nd Edition*, Campbell.

- **Name of Course: Anatomy and Physiology Honors**

Recommended Prerequisites: Biology

Course Description: Honors Anatomy and Physiology will examine in detail the systems of the human body with emphasis on the relationships between and structure and function of various cells, tissues, and organs. Students will examine models and preserved specimens as they study all the systems of the human



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body. In addition, microscopy, dissection and other laboratory techniques will be used to fully understand our bodies.

Materials/Text: *Modern Biology* by Holt

- **Name of Course: Ecology Honors**

Recommended Prerequisites: Biology

Course Description: Honors Ecology will take an in-depth survey of the 6 kingdoms of life and concentrate on the relationships among all living things. Laboratory techniques, leaf and insect collections, microscopy, and dissection may be used to explore ecological concepts and the cycles of nature. Skills to prepare students for AP Biology and AP Environmental Science will be taught.

Materials/Text: *Modern Biology* by Holt

- **Name of Course: Anatomy and Physiology - CP**

Recommended Prerequisites: Biology

Course Description: Anatomy and Physiology (CP) will examine in detail the systems of the human body with emphasis on the relationships between and structure and function of various cells, tissues, and organs. Students will examine models and preserved specimens as they study all the systems of the human body. In addition, microscopy, dissection and other laboratory techniques will be used to fully understand our bodies.

Materials/Text: *Modern Biology* by Holt

- **Name of Course: Ecology - CP**

Recommended Prerequisites: Biology

Course Description: Ecology (CP) will take an in-depth survey of the 6 kingdoms of life and concentrate on the relationships among all living things. Laboratory techniques, leaf and insect collections, microscopy, and dissection may be used to explore ecological concepts and the cycles of nature. Skills to prepare students for Advanced Placement Biology and AP Environmental Science will be taught.

Materials/Text: *Modern Biology* by Holt



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- **Name of Course: Chemistry Honors**

Recommended Prerequisites: Algebra I, Physical Science.

Course Description: Students in Honors Chemistry 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 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.

Materials/Text: *Modern Chemistry* (by Davis, Metcalfe, Williams, & Castka), *Modern Chemistry Workbook*, and *ChemFile Laboratory Experiments Manual*.

- **Name of Course: Chemistry - CP**

Recommended Prerequisites: Algebra I, Physical Science.

Course Description: 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.

Materials/Text: *Modern Chemistry* (by Davis, Metcalfe, Williams, & Castka), *Modern Chemistry Workbook*, and *ChemFile Laboratory Experiments Manual*.



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- **Name of Course: Environmental Science - CP**

Recommended prerequisites: Physical Science and Biology.

Course Description: 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.

Materials/Text: *Your World Your Turn* by Withgott.

- **Name of Course: AP Environmental Science**

Recommended Prerequisites: Biology I.

Course Description: The AP Environmental Science course is the equivalent of a one-semester, introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of 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. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. Students are required to take the AP Exam at the conclusion of the course.

Materials/Text: *Environmental Science for AP 2nd Edition*, Friedland and Relyea and *Barron's for AP Environmental Science, 6th Edition*.

- **Name of Course: Physics - CP**

Recommended prerequisites for this course: Algebra and Geometry.

Course Description: 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. Classroom activities will include laboratory experiment, classroom discussions/lectures, readings, and assessment activities.

Materials/Text: Currently under review.



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- **Name of Course: AP Psychology**

Recommended Prerequisites: Biology I and enrollment in Botany, Zoology, and Ecology.

Course Description: Content areas covered in AP Psychology in the fall semester 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 and memory, thinking, problem solving, creativity, 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 engage in project-based learning activities for each unit in addition to traditional assessment methods such as tests and quizzes.

Materials/Text: *Myers Psychology for AP*, *Beautiful Boy* by David Sheff, *AP Psychology Crash Course* (study materials book).



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Foreign Language

- **Name of Course: Spanish I Honors**

Recommended Prerequisites: None

Course Description: This course teaches students the foundations of Spanish. They learn basic grammar beginning with simple sentence structure and conjugating verbs to more complex sentences using concepts such as direct and indirect objects and past and present tenses. They begin to develop reading, writing, and speaking skills through various activities. They will learn to write sentences and have conversations. This course also explores the Spanish culture through videos and the exploration of different Spanish speaking countries around the world. This course differs from CP Spanish I in that it moves at a faster pace.

Materials/Text: *Descubre 1: Lengua y cultura del mundo hispánico*

- **Name of Course: Spanish I - CP**

Recommended Prerequisites: None.

Course Description: This course teaches students the foundations of Spanish. They learn basic grammar beginning with simple sentence structure and conjugating verbs to more complex sentences using concepts such as direct and indirect objects and past and present tenses. They begin to develop reading, writing, and speaking skills through various activities. They will learn to write sentences and have conversations. This course also explores the Spanish culture through videos and the exploration of different Spanish speaking countries around the world.

Materials/Text: *Descubre 1: Lengua y cultura del mundo hispánico*

- **Name of Course: Spanish II Honors**

Recommended Prerequisites: Spanish I

Course Description: This beginning and sequential program continue with the study of the target language and its culture. It allows students to perform the most basic functions of the language and at the same time to discover different elements of the Hispanic culture. The emphasis is placed on the development of the four language skills (listening, speaking, reading and writing) in the 5 C's context (Communication, Culture, Connections, Comparisons and Communities). A variety of language and cultural activities are presented such as songs, games, dances, food using different kinds of language teaching methods according to the learning styles.

Materials/Text: *Descubre, Vista High Learning, Spanish/English dictionary.*



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- **Name of Course: Spanish II - CP**

Recommended Prerequisites: Spanish I

Course Description: This beginning and sequential program continues with the study of the target language and its culture. It allows students to perform the most basic functions of the language and at the same time to discover different elements of the Hispanic culture. The emphasis is placed on the development of the four language skills (listening, speaking, reading and writing) in the 5 C's context (Communication, Culture, Connections, Comparisons and Communities). A variety of language and cultural activities are presented like songs, games, dances, food using different kinds of language teaching methods according to the learning styles.

Materials/Text: *Descubre, Vista High Learning*, Spanish/English dictionary.

- **Name of Course: Spanish III Honors**

Recommended Prerequisites: Honors Spanish II.

Course Description: This course is intended to engage students in communication with spoken and written Spanish language. Students will also continue to familiarize themselves with different perspectives of the target language culture through experiences with its products and practices. Through the study of thematic vocabulary and more advanced grammatical structures, students will be able to imitate appropriate gestures, intonation, and common idiomatic expressions through social interaction. The course continues to build on the four language skills: listening, speaking, reading, and writing within the context of the five competences: Communication, Culture, Connections, Comparisons and Communities.

Materials/Text: *Descubre, Vista High Learning*, Spanish/English dictionary.

- **Name of Course: Spanish IV Honors**

Recommended Prerequisites: Honors Spanish III.

Course Description: This advanced sequential program continues expanding the study of the target language and culture through experiences with its products and practices. This course is intended to engage students in communication with spoken and written Spanish language. Through the study of thematic vocabulary and more advanced grammatical structures, students will be able to imitate appropriate gestures, intonation, and common idiomatic expressions through social interaction. Students read, understand and write essays about short stories, poetry written by well-known authors of the Latin American and Hispanic literature. The course continues to master the four language skills: listening, speaking, reading, and writing within the context of the five competences: Communication, Culture, Connections, Comparisons and Communities.



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Materials/Text: *Descubre, Vista High Learning*, Spanish/English dictionary.

Electives

- **Name of Course: Art I**

Recommended prerequisites: None.

Course Description: This course focuses on two- and three-dimensional design for a strong foundation in art. Students will gain an appreciation of all art forms and cultivate knowledge of artistic techniques through the creation of a yearlong portfolio. Throughout the year, students will also be introduced to art history and discuss famous artists and how they have shaped the current understanding of design.

Materials/Text: None.

- **Name of Course: Art II**

Recommended prerequisites: Art I

Course Description: This course continues and expands upon the topics studied in Art I. Art II is an art intensive independent study class. Students will create a body of work with a consistent theme of their choice (approved by teacher). Students must have a proposal for their theme and an idea of what mediums they want to use before the course starts. Students will sketch out their ideas and use the creative process to complete their art work. The portfolio must have 6-10 pieces of art by the end of the year. Students must pace themselves to complete 1-2 works per 6 weeks. Students will also write/present an artist report each six weeks. The artist will be someone that inspires them or an artist that coincides/mastered the student's theme or medium. By researching an artist, they will dig deeper into art history and hopefully be inspired to create works of art.

Materials/Text: None.

- **Name of Course: Chorus**

Recommended Prerequisites: None.

Course Description: Students develop music reading skills, vocal skills and musicianship. Students build self-confidence and an appreciation for excellence through performance. Students experience a variety of choral music styles.

Materials/Text: Choral Music chosen by teacher.

Unique projects, expectations, field trips or requirements of the course: The Greenfield School Chorale is a non-auditioned choral group that performs in our school and community. They perform in two concerts per year (December and May) and, they provide music at the Baccalaureate and Graduation



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Services. The Chorale also participates in a choral competition annually at Busch Gardens in Williamsburg, VA.

- **Name of Course: College Awareness**

Recommended Prerequisites: None.

Course Description: The College Awareness course introduces students to the college planning process using the Naviance computer program. 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. Students will also do a research project on a college and career of their choice.

Materials/Text: none

- **Name of Course: College Preparation**

Recommended Prerequisites: Senior Year Course.

Course Description: Content areas covered in College Preparation include essay writing, resume building, completing the college application process, as well as a comprehensive interviewing project. The student will do a mock interview with his/her parent, learn soft skills and communication skills, as well as interview with the administration as a mock college admission's interview. For their midterm, students will complete a group interview, as many scholarship interviews are group interviews where they need to shine among their peers. In the spring semester, students will learn healthy living skills such as psycho-education on drugs/alcohol and healthy relationships. Students will complete a unit on money management which will include budgeting, credit cards, and student loans. Students will wrap up the course with their senior presentation serving as their final exam.

Materials/Text: None.

- **Name of Course: Creative Writing - CP**

Recommended Prerequisites: None.

Course Description: In this course, students will spend time writing creatively in a variety of forms and genres. They will write collaboratively and independently. They will share their writing with their peers, giving and receiving feedback to be used in revision.

Materials/Text: Passages and selections chosen by the teacher.



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- **Name of Course: Digital Design**

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

Course Description: The purpose of this course is to learn about the various elements and principles of design and apply them to the digital world. To accomplish this, the class makes use of Microsoft Office programs such as Publisher, Paint, and PowerPoint as well as a variety of free online apps. Skills addressed include photography, stop motion pictures, and advertisement design.

Materials/Text: None.

- **Name of Course: Film Appreciation**

Recommended Prerequisites: None

Course Description: The course is designed to explore both the technical and artistic aspects of film. Movies will be evaluated based on plot and character development, use of camera angles, lighting and special effects. Students will learn about scene transition and how the director navigates from exposition to conclusion. Movie themes will be used to develop core skills such as research, public speaking and interview skills.

Materials/Text: None

- **Name of Course: Foundations of Leadership**

Recommended Prerequisites: Agreement to be a part of the Greenfield School Leadership Development Program

Course Description: In this, the first of the requisite courses of Greenfield Leadership Development Program, students will develop an understanding and appreciation for the art and science of leadership. Historical readings and theoretical research will provide students with valuable insight on leadership throughout the ages. Case studies will help students develop familiarity with the various skills and behaviors associated with best practices in the field of leadership and will help students recognize and develop their own leadership styles.

Materials/Text: *The leadership challenge* (Kouzes & Posner), *The leader's companion: Insight on leadership through the ages* (Wren).



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- **Name of Course: Health**

Recommended prerequisites: None.

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

Materials/Text: *Glencoe Health.*

- **Name of Course: Trigonometry Honors**

Recommended prerequisites: Algebra I, Geometry, concurrent enrollment in Geometry is also acceptable.

Course Description: 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.

Materials/Text: *Trigonometry, Fifth Edition, (Larson and Hostetler).*

- **Name of Course: History of Twentieth Century Sports**

Recommended Prerequisites: None

Course Description: Students will examine the arc of sport during the twentieth century. They will follow the path from the early days of spectator sports to billion-dollar industry of today. Special focus will be placed on cultural and historical influence.

Materials/Text: Teacher-chosen selections

- **Name of Course: Introduction to Philosophy**

Recommended Prerequisites: None

Course Description: “All men by nature desire to know”, said Aristotle. But how do we know what we know? What does it mean to lead a good life? To have a just society? To act with free will? If you desire to know or if you have thought about any of these questions, you are already a philosopher! This class will explore a variety of answers to these questions, and while doing so, students will also come up with their own.



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Materials/Text: TBD.

- **Name of Course: Introduction to Public Speaking**

Recommended Prerequisites: Foundations of Leadership

Course Description: This course is designed to develop the public speaking skills of high school students through planned and unplanned opportunities where they attempt to master the ability to speak to others effectively. This course will also serve to sharpen the life skills of listening, thinking, and supporting a message through clear and effective communication. The classroom will be one of positive reinforcement, respect and development.

Materials/Text: None.

- **Name of Course: Journalism**

Recommended Prerequisites: None.

Course Description: Students in this course will create a Greenfield student newspaper, in the process learning about the history of journalism, media ethics, investigative reporting, and writing on a deadline.

Materials/Text: None.

- **Name of Course: Yearbook**

Recommended Prerequisites: This course is only available to 11th and 12th grade students only. Students must have knowledge in uploading pictures/graphics, photo editing and/or selling skills. Students will be required to fill out forms before they are accepted into course.

Course Description: Student will be required to create/edit/modify online templates to create yearbook pages. They are required to have creativity and vision for the school. Student should know how to download/edit pictures using online software such as: photo editor, paint or logo maker. Some students will be required to go off campus during their class time to sell ads to local businesses. They are required to have a professional appearance each time they go off campus. Students must realize that this class does not end when class ends. Student are expected to participate in outside class time activities. Students will be required to take pictures around campus and at school events which may be at night.

Materials/Text: BYOD as stated by school guidelines. Pictures: phone photography is acceptable with a high-resolution version. Student may bring their own camera from home if it is professional caliber.



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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

MAT 171	Precalculus Algebra (3)
MAT 172	Precalculus Trigonometry (3)
MAT 271	Calculus I (3)
MAT 272	Calculus II (3)
SOC 210	Introduction to Sociology (3)
ART 111	Art Appreciation (3)