

HIGH SCHOOL COURSE CATALOG

2021-22 School Year / March 2021 Edition

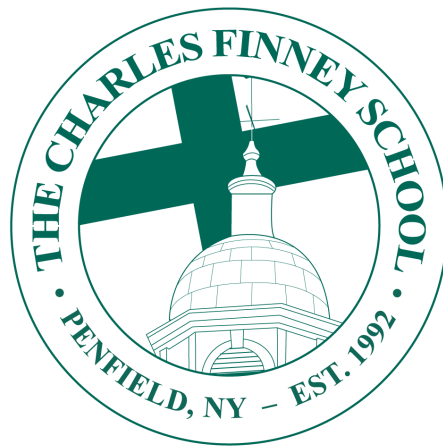


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ELECTIVE & DUAL CREDIT COURSES

Finney offers our students a wide variety of elective courses to choose from. Electives are available to all of our students, though more choices become available to students in grades 11 and 12.

Dual-Credit Courses

The Charles Finney School is proud to offer 13 dual-credit courses in partnership with an approved curriculum from Roberts Wesleyan College. Our Dual-Credit courses are taught by Finney teachers who possess the appropriate education and certifications to teach these courses as if they were adjunct professors at Roberts Wesleyan College.

Eligibility

Dual-Credit courses are available to juniors and seniors only.* ANY junior or senior may take dual-credit courses if they have completed the appropriate pre-requisites (see course descriptions for pre-requisites).

*SOME Dual-Credit courses are open to sophomores, but they can only earn high school credit. They CANNOT earn college credits as a sophomore.

Limitations

Students may only take up to 11 dual credit hours per semester. Most courses are 3 or 4 college credit hours.

Teacher recommendations will be taken into consideration when enrolling students into Dual Credit or Advanced Placement courses.

Dual-Credit Course Costs

There is NO FEE to take a dual credit course if your goal is to only earn high school credit for the course. Juniors and seniors may take any dual credit course they like, however, to earn college credit, there is a registration fee that is paid to Roberts Wesleyan College. This fee is \$85.00 per credit hour (\$255 for most courses).

NOTE: The only exception to this are the Dual Credit Writing and Literature courses. Students who opt to take the DC English courses must take BOTH courses (one each semester) and for Dual Credit (and pay the college fee).

While this is an additional fee for families, each of the courses offered at Finney are those that will be required of most students at most colleges/universities in most programs of study. \$85.00 per credit hour is also much less expensive than the same course at a college or university.

For example, an art or music class such as Introduction to Art OR Introduction to Music would be courses required by most programs of study at most colleges. To take one of these at Finney would satisfy the college requirement and therefore, students would not have to take that course in college, freeing them up to take other electives or, with enough credits, graduate early.

Expectations

While we STRONGLY encourage students and families to take advantage of these Dual Credit options, it must be made clear that these are COLLEGE level courses and are treated as such in grading and expectation.

Additional Information

NOTE: In some cases, students participating in Dual Credit courses will also be required to rent or purchase a textbook or workbook for the class. It will be noted in the course description whether or not books / materials for the class will be provided or need to be obtained by the student.

NOTE: Any college level (DC or AP) one semester course, while listed as 1 credit on the high school transcripts, will be treated as a ½ credit course for internal and scheduling purposes.

REQUIRED COURSE OF STUDY

All students at the Charles Finney School are required to take a minimum course load of 6 credits per year. For most freshman and sophomores, required classes exceed this requirement, but there is still opportunity at every grade to take elective courses (up to 2 credits).

Required courses (typical course of study) at each grade level are as follows:

Freshman

Algebra	1 credit
Earth Science	1 credit
Global Studies I	1 credit
English 9	1 credit
Bible 9 (Old Testament Survey)	1 credit
Spanish 1	1 credit
Freshman Seminar	1/2 credit
Physical Education	1/2 credit
Total	7 credits

Sophomore

Geometry	1 credit
Biology	1 credit
Global Studies II	1 credit
English 10	1 credit
Bible 10 (New Testament Survey)	1 credit
Health	1/2 credit
Physical Education	1/2 credit
Total	6 credits

Junior

Math (Algebra II or Business Math)	1 credit
Science (Chemistry or Environmental Science)	1 credit
US History	1 credit
English 11	1 credit
Bible 11 (Truth Project)	1 credit
Physical Education	1/2 credit
Elective	1/2 credit
Total	6 credits

Senior

Civics	1 credit
English 12	1 credit
Bible 12 (Biblical Worldview)	1 credit
Senior Seminar	1/2 credit
Principles of Speech	1/2 credit
Physical Education	1/2 credit
Electives	1 1/2 credits
Senior Internship	0 credits
Total	6 credits

Physical Education Requirement

Students who play a sport may opt out of PE class, but are still required to take a minimum course load of 6 credits per year and would need to replace PE with an elective class.

College Preparation for Division I or Division II Sports

For those students who are interested in playing sports at a Division I or Division II level, there are very specific requirements as they pertain to a course of study. Please be sure to bring this up with the school administration or the Director of Student Services when planning your course of study at Finney.

HIGH SCHOOL COURSES

Art

Ceramics (.5 High School Credit)

Ceramics is an exciting course that is designed to open your eyes to the visual potential that exists within your own mind and through your hands through the media of clay! A variety of clay projects will be created using methods such as pinch, coil, slab, throwing on the wheel (if we have time), and hand-building. The basic elements of art, design and color theory will be emphasized and lead you into using all of these different clay techniques to create a final project incorporating each of the techniques into one project at the end of the year. This is a wonderful course that will help you develop your artistic vision and release your creative potential through the medium of clay.

Digital Imaging 1 (.5 High School Credit)

This course will teach the basics of photography and digital imaging and manipulation. The students will learn camera and digital exposure basics as well as using PhotoShop as a digital darkroom. They will learn how to use PhotoShop to optimize their photographs for printing as well as web viewing. Students will also learn further advanced skills to add artistic elements to their work. This course will focus equally on technical skill and artistic expression.

Digital Imaging 2 (.5 High School Credit)

This course will continue from basic digital imaging and explore the concepts from that class in greater depth. Students will learn more advanced functions of their camera, as well as advanced applications in PhotoShop, especially in the area of digital cleaning and image touch-up. This course will focus on developing the student's individual artistic vision and the emergence of a personal voice.

Prerequisite: Digital Imaging 1

Drawing & Painting (.5 High School Credit)

Drawing and Painting is an exciting half year course designed to open your eyes to the visual potential that exists within your own mind! A variety of drawings will be completed using the different mediums such as graphite, charcoal, pastel, ink, clay and mixed media. The basic elements of art, design and color theory will be

emphasized and lead you into painting. Paintings will be completed in watercolor, gouache, and acrylic. This is a wonderful course that will help you develop your artistic vision and release your creative potential.

Prerequisite: Studio Art

Computer Graphic Design (.5 High School Credit)

This course will teach the basics of digital graphic design. The students will learn the basics of PhotoShop, as well as advanced skills to add artistic elements to their work. Once basic PhotoShop skills are mastered, this class will then teach elements of style and design. This course will focus equally on technical skill as well as artistic expression.

Yearbook (.5 High School Credit)

This course provides students the opportunity to gain skills in one or more of the following areas: page design, advanced publishing techniques, copywriting, editing and photography while producing a creative, innovative yearbook which records school memories and events. There is an emphasis on photojournalism and graphic design skills. Participants gain useful, real world skills in time management, marketing, teamwork, and design principles.

NOTE: Students may participate in the Yearbook without formally registering for the Yearbook class. Students interested in participating in the Yearbook, but who cannot fit it or are not enrolled, may see Mrs. Perez to make arrangements.

Studio Art (.5 High School Credit)

Studio Art is an exciting half year course which introduces students to the Elements of Art and Principles of Design while developing drawing skills and painting techniques. Studio experiences in the classroom will give students opportunities to experience a variety of media (pencil, pen, ink, charcoal, pastel, watercolor, and tempera paint) while developing each student's individual style and creative problem solving skills. Students will demonstrate their ability to respond, analyze and interpret their own artwork and the work of others through discussions, critiques, and writings.

Introduction to Visual Arts Dual College Credit (3.0 College Credits / .5 High School Credit)

Students will learn to become more visually aware through the study of the formal elements of art, by developing perception and a more sensitive observation of our environment, and by a beginning exposure to formative periods of our visual

heritage, the history of Western Art. Students will also learn to recognize the importance of art as part of the cultural task mandated by God, and to help remove barriers which have traditionally prevented Christian involvement, as well as how to recognize perception/beauty as part of the grandeur of God's creation and a reflection of His character, so that one might more fully appreciate and praise Him for it. ("Man's chief end is to glorify God, and to enjoy Him forever." Westminster Shorter Catechism, question 1.)

Prerequisites: See Art Teacher for information. Must be recommended for a college level course.

Biblical Studies

Old Testament Survey (1.0 High School Credit)

This is an overview of the writings of the Old Testament. Students will learn authorship, historical context, purpose, major themes, and theological content of each book in the Old Testament. Additionally, students will read through the Old Testament, enhance critical thinking skills, and gain a thorough understanding of the need for a Messiah as evidenced in the Old Testament.

New Testament Survey (1.0 High School Credit)

This is an overview of the writings of the New Testament. Students will learn authorship, historical context, purpose, major themes, and theological content of each book in the New Testament. Additionally, students will read through and take notes on the New Testament, enhance critical thinking skills, and gain an understanding of how to identify false doctrine.

Bible 11—The Truth Project (1.0 High School Credit)

This is a Biblical worldview class designed to give students the framework for the Christian faith. By the end of 11th grade, students will have an enduring understanding of Christian worldview. This worldview will include understanding moral absolutes as defined by the Bible, the Kingship of our Lord Jesus Christ, the Holy Spirit's role in our lives, and God as the creator of the universe.

Bible 12—Comparative Worldview (1.0 High School Credit)

Understanding the Times outlines the differences between Christianity and the other prominent worldviews vying for allegiance in Western culture: Islam, Postmodernism, Secular Humanism, Marxism, and New Age. In a time when more

than half of all Christians lose their faith in college, no other curriculum so effectively prepares students to defend the Christian worldview against all its competitors.

Text: *Understanding the Times* and *The Shack*

English

English 9 (1.0 High School Credit)

English 9 builds upon the fundamentals of writing, logical reasoning, critical thinking and verbal discourse begun in the elementary and junior high years.

English 10 (1.0 High School Credit)

English 10 builds upon the fundamentals of writing, logical reasoning, critical thinking and verbal discourse learned in ninth grade.

Prerequisites: English 9

English 11—American Literature (1.0 High School Credit)

American Literature advances skills in reading, writing, listening, speaking, and critical thinking. By the end of 11th grade, students will have the skills to read and comprehend a variety of American literature, and will produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.

Text: Prentice Hall: *The American Tradition*

Prerequisites: English 10

English 12—British Literature (1.0 High School Credit)

This is a theme-related, literature-based, integrated course focused on the history of British Literature. The literature is chronologically divided into historical literary periods, beginning with the Anglo-Saxon Period and ending with Twentieth Century Period literature. Attention is given to theme-oriented poetry, short stories, essays, non-fiction, and full-length works. Literary devices, content, style, and cultural diversity are studied. Public speaking, various forms of composition, as well as the use of technology are integrated into the semester's study and assessments. Emphasis is placed on the development of critical and analytical thinking skills

through discussion and frequent writing. In order to prepare students for the college setting, knowledgeable discourse of the subject matter will be required.

Text: Prentice Hall: *The British Tradition*

Prerequisites: English 11

Dual Credit English 12 (Principles of Writing) (3.0 College Credits / .5 High School Credit)

Students engage in intensive writing practice to develop their critical thinking and written communication for academic purposes. Dual Credit English presents the Introductory English curriculum within the high school classroom. Advanced students can earn credit for both their high school English and their introductory college English simultaneously.

This course focuses on the process of composition, from pre-writing through editing. Emphasis is placed on writing skills needed for academic success. Students may be asked to draw upon assigned readings, research materials, class discussion, and personal experience as they develop college-level non-fiction prose. (A minimum grade of 73% is required.)

Prerequisites: English 11, Teacher Recommendation

Dual Credit Introduction to Literature (3.0 College Credits / .5 High School Credits)

This course acquaints students with the major literary genres: fiction, drama, and poetry. Perhaps the most important reason to study literature is to gain awareness and even appreciation of the world beyond your own front door. When you read a short story or a play or a poem, you are offered insights about the human experience - about the life challenges that have perplexed, amazed, delighted, and moved people for centuries. You are called to think about your own life and your relationships with others. If you become engaged with - open to - what you read, you may discover surprising connections between you and the literary works you encounter.

Prerequisite: Dual Credit English 12 (Principles of Writing)

Creative Writing (.5 High School Credits)

This course will help students improve their writing skills and become more comfortable with different forms of writing. Through this course, students will gain skills in expressing themselves with originality, creativity, and clarity.

Students will also learn how to be a participant in a writing community and learn to give and receive useful feedback. This course will focus equally on technical skill and artistic expression. This course is open to 10, 11, and 12 grades.

Principles of Speech (.5 High School Credit)

This course offers an introduction to speech communication emphasizing practical application of rhetorical principles. Students gain experience in preparing and presenting formal speeches and develop skills of effective listening and critical analysis.

Spanish 1 (1.0 High School Credit)

Spanish 2 (1.0 High School Credit)

Spanish II adds to the student's understanding of the Spanish language structure and increases vocabulary. The emphasis on fundamentals continues in this course. Students continue to acquire proficiency in Spanish through a linguistic, communicative, and cultural approach. Students will do research on various cultural topics. The emphasis and primary goal will be placed on the development of conversations, vocabulary, and correct language usage. This course will provide appreciation of cultural awareness. In Spanish II, as the year draws to an end, the student will need to communicate with a native Spanish speaker for their final oral assessment. The course is intended for students who are planning in the future to travel to a Spanish speaking country, get involved in a missions trip, or have a desire to work with the Hispanic community.

Prerequisite: Spanish 1 or equivalent proficiency

Spanish 3 (1.0 High School Credit)

Spanish III deepens the student's understanding of the Spanish language focusing on the three modes of communication: interpretive, interpersonal, and presentational. The emphasis on fundamentals continues in this course. Each unit consists of a variety of activities which teach the students how to understand more difficult written and spoken passages. The students will engage in informal speaking and writing interactions to express their thoughts and opinions. They will participate in conversations covering a wide range of topics and respond appropriately to conversational prompts. The students will analyze and compare cultural practices from various Spanish-speaking countries and read Hispanic literature. The course is conducted almost entirely in Spanish.

Prerequisite: Spanish 2 or equivalent proficiency

Mathematics

Algebra 1 (1.0 High School Credit)

Algebra 1 seeks to develop a logical progression of ideas, as using variables to replace numbers. Topics to be explored include using inverse operations to solve equations and inequalities, complex fractions, radicals, factoring polynomials, graphing equations, and solving word problems all with the goal of developing higher level thinking skills.

Class Website:

<https://sites.google.com/a/finneyschool.org/mr-latona-math-classes/algebra-9th-grade-math>

Geometry (1.0 High School Credit)

Geometry emphasizes critical thinking involving the discovery of relationships, proofs of relationships, and skill in applying the deductive method to mathematical situations. Topics include logic, reasoning, and the study of Euclidean Geometry involving lines, planes, angles triangles, similarity, congruence, geometric inequalities, polygons, circles, area, volume and constructions.

Text: Online textbook access through pearsonsuccessnet.com. Username and password are given to student on first day of school.

Prerequisites: Algebra

Algebra 2 / Trigonometry (1.0 High School Credit)

This course continues the development of the useful topics of logic, statistics, and probability presented in Geometry. The topics covered include complex numbers, relations and functions, logarithmic functions, circles, and trigonometry. The goals of this class are to develop proficiency with mathematical skills, to expand understanding of mathematical concepts, to improve logical thinking, and to promote success.

Text: Online textbook access through pearsonsuccessnet.com. Username and password are given to student on first day of school.

Prerequisites: Geometry

Dual Credit Elementary Statistics (3.0 College Credits / .5 High School Credits)

An introduction to descriptive and inferential statistics, this course typically covers descriptive analysis of data, correlation and regression, sampling distributions, central limit theorem, confidence intervals, hypothesis testing, inferences about means, and the chi-square test. The course includes use of the computer.

Prerequisite: Algebra 2 / Trigonometry

Dual Credit Pre-Calculus (3.0 College Credits / 1.0 High School Credits)

Pre calculus is a rigorous mathematics course that brings together nearly all the mathematics that the student has been taught up to this point. The interconnection of topics is emphasized. Problem solving strategies are central to the course, which is designed to serve as the entryway to some of the most historically important avenues of human thought and many of the most powerful mathematical topics.

This course will be an intense introduction to several advanced topics in mathematics including trigonometric functions and analytic trigonometry, vectors, polynomial, rational, and radical functions, exponential and logarithmic functions, sequences and series, and limits. Students also will continue their study of systems of equations and inequalities, probability, along with an introduction to Calculus. Great emphasis will be placed on the "rule of four", graphical, analytic, numeric, and verbal exploration of topics.

Class Website:

<https://sites.google.com/a/finneyschool.org/mr-latona-math-classes/pre-calculus>

Prerequisites: Trigonometry

Dual Credit Calculus 1 (3.0 College Credits / 1.0 High School Credits)

Calculus is one of the most exciting, wide-reaching courses in Mathematics that a student will encounter. It is through Calculus that one understands the precise relationships that allow predictions into the motions of moving bodies and the effects of forces. Students will prepare to take a Roberts final exam at the end of this course. Calculus is required of most students who enter a technical course of study in college (math, science, medicine, engineering, etc.). This course is designed to prepare you for college level study, using college level materials. The work ethic on the student's part must rise to meet those standards.

Text: *Calculus* by Finney, Demana, Waits, Kennedy and *Calculus (5th Ed)* by Larson, Hostetler, and Edwards

Class Website:

<https://sites.google.com/a/finneyschool.org/mr-latona-math-classes/wiki-site-info/calculus-ab-and-bc>

Prerequisites: Pre-Calculus

Dual Credit Calculus 2 (3.0 College Credits / .5 High School Credits)

A continuation of Calculus 1 with an emphasis on transcendental functions, techniques of integration, applications of integration, and infinite series.

Text: *Calculus* by Finney, Demana, Waits, Kennedy and *Calculus (5th Ed)* by Larson, Hostetler, and Edwards

Class Website:

<https://sites.google.com/a/finneyschool.org/mr-latona-math-classes/wiki-site-info/calculus-ab-and-bc>

Prerequisites: Calculus 1

Business & Personal Math (1.0 High School Credit)

This course is designed to help students to be a smart consumer, be financially literate, and manage their personal and business finances in a biblical way. The course is divided into six parts: Review of basic math skills, Financial Bible study, Managing money, Managing expenses, financial decisions, and making business decisions.

Prerequisites: Algebra 1 and Geometry

Music

Dual Credit Introduction to Music (3.0 College Credits / .5 High School Credit)

Students are introduced to the art of music and its materials with emphasis on the development of listening skills. Requirements of the course include attendance at recitals and concerts outside of Finney and at other Rochester institutions. Introduction to music is an entry level course that satisfies an art / music requirement for most liberal arts majors at most colleges.

Dual Credit Theory 1 (3.0 College Credits / .5 High School Credit)

The fundamentals in music are studied, including notation of pitch in various clefs, scales, intervals, elements of rhythm, triads and seventh chords, diatonic chords, principles of voice leading, part-writing, and harmonic progression. This course would satisfy a music / art requirement for most majors at most colleges. It is also the first required Theory course for music majors.

Prerequisite: 2 years of high school orchestra or choir.

High School Choir (.5 High School Credit)

High School Choir is composed of a chorus of mixed voices (soprano, alto, tenor, and bass) performing a rich variety of music including classical, traditional hymns, folk songs, patriotic, contemporary worship, gospel, jazz, pop, and more. Students demonstrating interest and ability in music are encouraged to join. Students will learn dedication, unity, and self discipline as they experience full ensemble rehearsals. In class, students will learn the core vocal technique of speaking on pitch, which will lead to developing skills in ear training, sight reading, tone quality, rhythm, vocal consistency, harmony, style and interpretation, range, and much more. This ensemble performs at various events within the school setting and outside of school. Group voice lessons are also a part of this class and are scheduled on a rotating basis. It is highly recommended that a student desiring to participate in other musical activities (ex. Chapel Worship Team, special music, spring musical) become an active member of this ensemble. The Charles Finney School is a NYSSMA member institution.

High School Orchestra (.5 High School Credit)

Orchestra is an advanced level course for those trained in a musical instrument. The class meets twice a week and performs at both the Winter and Spring concerts. This course is a requirement for anyone interested in the other ensemble opportunities (Jazz band, drum line and string quartet). The music performed is of standard repertoire arranged for our select instrumentation. A screening process is required for all new members. This ensemble is an active group within the Charles Finney School and strives for excellence. Due to the fast paced nature of this course, students are engaged, energized and encouraged to do something greater. Each student's musical gifts are enhanced and developed throughout the course of the year. Our instrumental program is growing and blessed through our Lord Jesus Christ.

The Charles Finney School is a NYSSMA member institution, which enables students to participate in solo festivals, all-county events, and all-state festivals.

Worship Team (.5 High School Credit)

This class is a musical ensemble that also includes Biblical teaching. The class focuses on vocal technique and instrumental musicianship in the context of contemporary worship. The class also includes the study of some basic Biblical principles of praise and worship, the Biblical context of the learned songs, basic principles of sound engineering, and principles and techniques of leading a congregation in song. We also hope to compose some original songs of praise and worship. The students of the worship class will regularly participate in the weekly chapel services in various capacities.

Prerequisites: There are no prerequisites for this class. However, the worship director will establish a clear selection process. Students will have to “apply” for this course.

Students participating in a performing ensemble and ALSO worship team and meet only once a week will not receive fine arts credit.

Jazz Ensemble (0 High School Credits)

This course is open to anyone who plays a jazz instrument (sax, trombone, trumpet, clarinet, drums, guitar, bass or piano) and knows how to read music. We focus on learning traditional jazz charts as well as jazz theory, history and repertoire. This is a performing group that has many performing opportunities. Jazz Band is different than other music ensembles because it focuses on blues, funk, swing, rock and more contemporary styles of music. A favorite course by all, it focuses on playing. We work on developing solos and improvisations, which allows the student to express themselves musically, without the limitations of written music. This is a great course for anyone who loves all different genres of music and wants to express themselves through their instrument.

Note: This course will appear on the student’s transcript but will not earn credit.

Chamber Ensembles (0 High School Credits)

Chamber ensembles are made up of many different instrumental groups. These are open to all participating instrumental students, and gives them a chance to work together in a small group setting. Groups include: Jazz Trio, Clarinet Choir, String Quartet, etc. These groups perform on field trips, nursing homes, assemblies, fundraisers, and many special events. It is a chance to work on individual skills, reading music and participate in a small performing group. This class is

recommended for any instrumental students who are not currently taking lessons or anyone who wants to continue to learn and grow in music.

Note: This course will appear on the student's transcript but will not earn credit.

Physical Education

Physical Education 9-12 (.5 High School Credit Annually)

Physical Education for grades 9-12 focuses on developing the skills, knowledge and strategies of a variety of athletic sports and games. Our goal is to build the sportsmanship, confidence and teamwork skills of each student. We teach the basic principles of health and fitness and encourage our students to live active, healthy lives.

Sports Credit (.5 High School Credit Annually)

Physical education credit can be awarded when a student completes a full season as a member of any of the school's athletic teams.

Science & Technology

Biology (1.0 High School Credit)

Biology is the study of living things. In this course we will cover topics of biochemistry, cellular biology, genetics, DNA, evolution, photosynthesis and cellular respiration.. The course will include lectures and separate lab periods. This course is designed to provide students with an overall picture of the living world around them, as well as provide a foundation for a college-level course in biological sciences.

Text: *Biology* by Miller and Levine

Earth Science (1.0 High School Credit)

This course offers an overview of the four areas of Earth Science: geology, meteorology, astronomy, and oceanology. With hands-on experiences and projects, students will learn how to observe, collect and record data that will allow them to explore our planet and the events that change it. It will increase their awareness of how we impact the future of our planet and generate thought-provoking questions

that will engage their creativity. As a result, their problem-solving skills will be enhanced, as well as their ability to work collaboratively.

Health (.5 High School Credit)

We will examine various components of Health from a biblical perspective: Physical, mental, emotional, and spiritual. Each student will have opportunities to evaluate her/his current state of health in all of these areas and we will provide the information necessary to help students make good lifestyle decisions.

Text: *Christian Paths to Health and Wellness* by Walters and Byl

Chemistry (1.0 High School Credit)

Chemistry is the study of matter, its structure, properties, composition, and the energy involved as matter undergoes changes. Through hands-on experiences and with teacher-guided questions, students will learn to create their own repertoire of knowledge to replace erroneous ideas about what happens in the world around them. Major topics include atomic structure, chemical bonding, thermochemistry, kinetics, and electrochemistry. This course will prepare students for General Chemistry at the college level and other upper level science courses.

Prerequisites: Geometry, Biology (recommended co-enrollment with Trigonometry)

Dual Credit Chemistry (4.0 College Credits / 1.0 High School Credits)

This course provides an introduction to the fundamental concepts, theories, and methodologies of chemistry as a foundation for further study in the sciences. Topics covered include stoichiometry, chemical reactions, thermochemistry, electronic structure of atoms and molecules, periodic trends, and bonding theories.

Prerequisites: Chemistry, Trigonometry

Environmental Science (1.0 High School Credit)

Environmental science is a multidisciplinary field of study aimed at understanding how our planet is designed to function. The course includes content from Earth Science, Biology, Geology, Meteorology, Oceanography and the Physical Sciences. In this course, we will learn how our planet works, and explore some of the issues related to sustainability and stewardship.

Text: *Your World Your Turn* by Withgott

Physics (1.0 High School Credit)

Physics is designed to replace some of the misconceptions held by students regarding our physical world. Through hands-on experiences and with teacher-guided questions, students will learn to create their own repertoire of knowledge to replace erroneous ideas about what happens in the world around them. They will learn that Physics involves more than equations and laws. They will learn to investigate and create, as well as answer questions as they collaborate with classmates on topics including but not limited to kinetics, waves, electricity, and Quantum Theory.

Prerequisites: Trigonometry, Chemistry

Anatomy and Physiology (1.0 High School Credit)

This course is intended for serious science students who are interested in pursuing a career related to medicine such as physical therapy, sports trainer, physician or physician's assistant, nursing, or pharmacy.. It is intended to be a foundation for college anatomy and physiology courses, which are notoriously demanding. We will focus on the structures and functions of the human body systems. Laboratory components will be minimal. We will explore how in every case, disease results from a failure to maintain homeostasis. There will be opportunities for students to independently study, develop answers to questions, and teach their classmates

Prerequisites: Earth Science, Biology, Chemistry

Text: *Biology* by Miller and Levine and *Essentials of Human Anatomy and Physiology* by Marieb and Keller

Introduction to Robotics (.5 High School Credit)

Introduction to Robotics is intended for any student who is NEW to Robotics and can only be taken once. This course will meet once a day during the first semester of the school year. The purpose of the class is to introduce and recruit Finney students to the robotics program. The students enrolled in this class will be encouraged to participate on the Finny robotics team. Students will be encouraged to participate in the Ruckus, a scrimmage event at the Armory grounds in late October. We will be doing an introduction to CAD, computer aided drafting using On Shape an online CAD system. This software is used throughout the engineering industry and is a great way to see how a CAD program works. We will also be working with various tools needed to build the robot in the second semester class.

Class Website: <http://team1405robotics.com/index.html>

Robotics (Robotics Team) (.5 High School Credit)

The second semester of Robotics requires students to be a member of the robotics team 1405 Finney Falcons. Furthermore, if a student participates in the robotics program outside of school they may take this course without doing Intro to Robotics. This class is a second semester class for students who are on the robotics team. The class will focus its work on the current FIRST Robotics game for the year. To pass the class, students are expected to attend after school meetings and Saturday meetings of the robotics Team. They will also participate in regional events at RIT which is a Thursday - Saturday event in March. They also may have the opportunity to travel to Ohio and or Detroit based on the team's performance at the current year's game and the RIT regional outcome. Travel to these events is not a requirement of the course.

Class Website: <http://team1405robotics.com/index.html>

Web Design (.5 High School Credits)

Students learn to design and develop Internet websites. This course includes graphic design for digital media, usability, and interface design. Students will learn to build websites using Flash. Basic photo and image editing skills will be learned with Adobe Photoshop. Other technical skills learned include Javascript, cascading style sheets, compatibility standards, and image optimization. The class will be taught through a combination of lectures, demonstrations, handouts, discussions, and lab time. Final grade consists of projects, assignments, quizzes, and a final project recommended for intermediate-level computer users.

Social Sciences

Dual Credit Introduction to Business (3.0 College Credits / .5 High School Credit)

This course provides an introduction to the functional areas of management, marketing, and finance. It will also examine the history of business in the United States, and address the concepts of vocation and stewardship. Students taking this course will need to purchase a textbook for the class.

Dual Credit General Psychology (3.0 College Credits / .5 High School Credit)

This course provides an introduction to the general principles of psychology and is the equivalent to PSY 101 at Roberts Wesleyan College. The student is acquainted with the human organism, its behavior, and some of the mechanics and dynamics of learning, perception, sensation, emotion, and motivation. The course gives a broad view of all psychology and is prerequisite to all other college psychology courses.

Text: Meyers, D. G. (2010). *Psychology* (9th ed.). New York: Worth Publishers.

Prerequisites: Students must be in grades 11 or 12 and be recommended for a college level course.

Social Studies

Global Studies 1: World History - Creation to the 17th century (1.0 High School Credit)

Honors available

This course offers an overview of the beginning of world history until the seventeenth century. We will be exploring themes in history such as chronology, cause and effect and turning points and integrate subjects of the social studies such as geography, economics and government to help us understand the past. The textbook is just one of many resources we will be using to uncover what we know as history. We will rely upon additional primary and secondary sources to piece together the past and identify author bias in each.

Text: *World History & Geography*

Global Studies 2: World History - 17th century to present (1.0 High School Credit)

Honors available

This course offers an overview of world history from the seventeenth century until the present time. We will be exploring themes in history such as chronology, cause and effect and turning points and integrate subjects of the social studies such as geography, economics and government to help us understand the past. The textbook is just one of many resources we will be using to uncover what we know as

history. We will rely upon additional primary and secondary sources to piece together the past and identify author bias in each.

Text: *World History & Geography*

Prerequisite: Global Studies 1

US History (1.0 High School Credit)

This course offers a colorful and exciting section of social studies subjects. By the end of the year, you will have a solid foundation for entering 12th grade. The primary objective is to prepare you to have skills for 12th grade. We focus on academic skills, writing, time management and interpersonal communication skills. Small and large group discussions are a part of classroom learning. All students are expected to participate in them. This course is writing intensive. You will regularly practice your writing skills. Research essays, participation, tests and projects make up a majority of your quarter grade.

Prerequisite: Global Studies 2

Advanced Placement (AP) US History (1.0 High School Credit)

Welcome to 11th Grade AP U.S History. This course offers a colorful and exciting selection of social studies subjects. By the end of the year, you will have a solid foundation for entering 12th grade. The AP U.S. History course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and an understanding of content learning objectives organized around seven themes, such as identity, peopling, and America in the world. AP U.S. History is designed to be the equivalent of a two-semester introductory college or university U.S. History course. The purpose of this course is to prepare students to take the AP Exam for U.S. History.

Prerequisite: Global Studies 2

Advanced Placement (AP) US Government & Politics (1.0 High School Credit)

AP United States Government & Politics is a college level course which explores political theory and its application to the daily operation of the U.S. government as well as its role in shaping public policy. This course will also provide students with an analytical perspective on government and politics in the United States. This course incorporates the use of general concepts used in interpreting U.S. government policies and analysis of examples of the policies. The purpose of this course is to

prepare students to take the AP Exam for U.S. Government and Politics. This course can be taken in lieu of Civics.

Text: *American Democracy Now*, AP Edition – Harrison 5e

Prerequisite: United States History

Civics (1.0 High School Credit)

Civics is a required course for graduation and covers several aspects of government. Civics will explore the origins of the American democratic system while looking at how the Constitution embodies the values and purposes set up by the founding fathers. The structure and function of the government will be analyzed on a national, state, and local level while showing how each level is interrelated. This will launch the class into discussing how constitutional values relate to other nations and world affairs. Throughout the course we will focus on how the students can play an active role in government and the importance each citizen contributes to society. Students will also be required to stay in touch with current events in the state and federal government.

Prerequisite: United States History

Additional Courses

Freshman Seminar (.5 High School Credit)

Freshman Seminar is designed to assist the student with the transition from junior high to high school.

Senior Seminar (.5 High School Credit)

The Senior Seminar class is designed to prepare students for success in college or finding a career.

Senior Class Internship Program (0 Credits)

The Charles Finney High School Senior Class Internship program is a required class designed for seniors to experience the working world first-hand and explore college and career opportunities. Students are required to engage in authentic workplace

experiences and complete relevant assignments in the College and Career class. We have opportunities both within Finney and local communities.

Seniors make all the necessary contacts and arrangements. Internships within Finney are completed within the school day; outside internships are completed after school hours. Finney provides a list of all known internship opportunities and all internships must be pre-approved. Transportation to outside opportunities is the student's responsibility.

SAT Prep (.5 High School Credit)

Offered each Fall semester, this course is designed to give students the tools to prepare for the Evidence-Based Reading and Writing and the Math portions of the SAT exam. Students will practice test questions for applicable math, vocabulary, reading comprehension and written expression. This course is four (4) days a week for one semester. Two (2) days are spent practicing for the English part of the SAT and two (2) are spent practicing for the Math section.

Ignitia Online Courses (.5 High School Credit)

Ignitia on-line courses are FREE INDEPENDENT STUDY ELECTIVES. These courses are rigorous, hands-on courses for grades 9-12. They promote critical thinking, emphasize problem solving and encourage students to take responsibility for their own learning. There are over 40 courses (divided into 14 clusters) that Finney students can take. These courses are a great way to introduce students to a variety of career or technical paths as they consider their post high school education. The clusters include the following: Architecture and Construction, Arts/AV Technology and Communications, Business Management, Education and Training, Finance, Government and Public Administration, Health Sciences, Human Services, Information Technology, Manufacturing, Marketing, STEM and Transportation, Distribution and Logistics.

On-line Ignitia Courses include:

- Introduction to Careers in Architecture and Construction
- Construction Careers
- Introduction to Careers in Arts, A/V Technology and Communications
- A/V Technology and Film Careers
- Business Law
- Career Management
- Small Business Entrepreneurship
- Technology and Business
- Introduction to Careers in Education and Training
- Teaching and Training Careers

- Introduction to Careers in Finance
- Banking Services Careers
- Introduction to Careers in Government and Public Administration
- National Security Careers
- Careers in Allied Health
- Nursing: Unlimited Possibilities and Unlimited Potential
- Introduction to Consumer Services
- Introduction to Information Technologies
- Fundamentals of computer Systems
- Fundamentals of Digital Media
- Fundamentals of Programming and Software Development
- Introduction to Information Technology Support Services
- Introduction to network Systems
- Network System Design
- New Applications: Web Development in the 21st Century
- Software Development Tools
- Introduction to Careers in Manufacturing
- Careers in Manufacturing Processes
- Introduction to Careers in Marketing
- Careers in Marketing Research
- Engineering and Design
- Engineering and Innovation
- Engineering and Product Development
- Introduction to Careers in Transportation, Distribution and Logistics
- Careers in Logistics Planning and management Services