

TCA High School Course Catalog 2024-25

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THE CLASSICAL ACADEMY HIGH SCHOOL

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The Classical Academy High School Course Catalog

The Classical Academy (TCA) High School Course Catalog lists all courses as approved by the TCA Board of Directors, whether or not the courses are currently offered. The catalog includes all required courses and elective courses, as well historical courses which are no longer offered.

Required Courses vs. Elective Courses

The Classical Academy (TCA) will regularly offer all required courses. Required courses are courses that qualify as a TCA graduation requirement. Required courses are listed at the beginning of each subject listing in the catalog. For a complete list of TCA graduation requirements, please go to the TCA website www.tcatitans.org or click on [TCA Graduation Requirements](#).

Elective courses are courses that have been approved by the TCA Board of Directors and compliment the required courses curriculum. Current TCA graduation requirements include nine semesters of elective credits. (When a student takes additional required courses, above and beyond what is needed for graduation, those additional required courses count toward the eight semesters of electives needed for graduation.)

Elective courses will be offered based on teacher availability, classroom availability and student interest. Elective courses are offered at the discretion of TCA High School Administration. Not all electives will be offered every year. For example, some may be offered on a two-year rotation. The annual course catalog will note which courses are not being offered for that school year.

Graduation Requirements

For a summary of TCA graduation requirements, click on: [TCA Graduation Requirements](#)

CCHE/HEAR Courses

CCHE/HEAR Expectations - Higher Education Admission Requirement (HEAR) (this is not a TCA Graduation Requirement change). Courses marked with a **CCHE** indicate that the course meets the expectations of the pre-collegiate admission requirements in Colorado. To view the CCHE Admissions Standards Policy, visit: [\[click here\]](#).

Graduates of 2010 and beyond are expected by CCHE (Colorado Commission for High Education) to complete 4 years of mathematics. To meet the pre-collegiate course requirements, mathematics must be at the level of Algebra I and higher. Pre-collegiate courses completed prior to 9th grade are acceptable.

Note 1: When Algebra I content is extended beyond one year, two Carnegie units of the pre-collegiate requirements are met.

Note 2: While the required three or four units of mathematics may be completed prior to the 12th grade, it is recommended that students take a mathematics course in 12th grade to retain student proficiencies.

NCAA Courses

NCAA Eligibility- National Collegiate Athletic Association (NCAA). Courses marked with a

NCAA indicate that this course may be used by the NCAA Eligibility Center to establish a student athlete's eligibility to play Division I or Division II collegiate athletics. For a list of Division I or Division II core course requirements, visit: [\[click here for NCAA website\]](#).

Historical Courses

Historical courses are courses that were once a part of the TCA curriculum; but are no longer being offered. They are listed at the end of this catalog. The listing of historical courses is so that post-secondary institutions may have an accurate definition of courses that show on TCA transcripts. TCA High School Administration determines if and when a course should be classified as a historical course.

Honors Courses Expectations

The intent of the Honors application process is to identify students with identifiable, special needs and/or students who are highly **motivated** in academics. Students and parents must understand that because Honors courses are weighted (4.5 scale for an A), the content and rigor of Honors classes are moderately higher than those found in traditional classes. Students should expect between 30 - 45 minutes of homework on an average night in each Honors class. This is an increased time commitment.

Honors students are expected to demonstrate integrity, motivation, maturity, intellectual curiosity, and high levels of class participation. An Honors student must maintain at least a "C" letter grade to remain in the Honors program in a given course of study. If a student earns less than the expected "C" letter grade in a particular course during the first semester, she/he may be removed from the Honors class and placed in a regular class at semester. A student earning below a "C" letter grade in second semester must re-apply to remain in the Honors program the next year in the course of study in which the expectation was not met.

Due to the intensified nature of Honors courses, they may have additional fees associated with them when compared to traditional courses. In general, for Social Sciences, English, and Science, TCA may designate one or more sections as "Honors" providing there is not already an AP course available in that subject at that curriculum level. For example, AP Biology lists both high school Biology and Chemistry as prerequisite courses, so TCA would offer an Honors Biology section. AP U.S. History is intended to parallel U.S. History so TCA would not offer Honors U.S. History. In order to justify creating and offering an honors section, a course must have enrollment sufficient to justify at least five sections (approximately 100 students) and sufficient commitment to an honors course to justify it. In Foreign Languages and Mathematics, TCA will not create honors sections due to the availability of an accelerated sequence.

Honors courses will use the curriculum offered in the regular core classes as a base with an increase in rigor, depth and breadth of content. Honors courses will include an opportunity to explore enrichment activities and additional course materials.

Advanced Placement Course Expectations

The intent of the Advanced Placement application process is to identify students with identifiable, special needs and/or students who are highly motivated in academics. Students and parents must understand that because AP courses are weighted (5.0 scale for an A), the content and rigor of AP classes are significantly higher than those found in traditional classes and higher than Honors courses. Students should expect an average of 60 minutes of homework per night in each AP course. Again, this is a significant time commitment. AP students must be highly motivated, able and willing to work responsibly. Students are required to sign a “Letter of Intent,” pay a non-refundable exam fee by the annual deadline at the beginning of the school year, and take the AP exam on the day published by College Board.

Advanced Placement students are expected to demonstrate integrity, motivation, maturity, intellectual curiosity, and high levels of class participation routinely. An AP student must maintain at least a “C” letter grade to remain in the AP program in a given course of study.

If a student earns less than the expected “C” letter grade in a particular course during the first semester, she/he may be removed from the AP course and placed into a regular class at semester. A student earning below a “C” letter grade in second semester must reapply to the AP program the next year in the course of study in which the expectation was not met.

Due to the intensified nature of AP courses, they may have additional fees associated with them when compared to traditional courses.

Repeat for Credit

Some courses at TCA may be repeated for credit and some may not. Courses that can be repeated for credit are those in which the student will learn new skills and master new objectives by taking the course, again. If a course cannot be repeated for credit, that course has terminal objectives and cannot be repeated unless the course is taken as a Pass/Retake or Fail/Retake. In the TCA catalog, each course that is taken for a credit is coded as to whether a student may repeat a course for credit or not. If the course is coded as “yes,” a student may enroll in that course for a second time and will receive credit for that course on his or her transcript. If the course is coded as “no,” a student may not enroll in that course for a second time once it has been taken during a previous semester or year (as applicable).

Fees Schedule

For a 2023-24 TCA High School Fees Schedule, click on: [TCA Board Approved Student Fees](#).

Note: The TCA Board of Directors will approve the 2024-25 student fees at its May 2024 meeting. Course fees may change.

Course Offerings



Rhetoric Required Course

Rhetoric Grade(s): 12 (Year course)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

NCAA

CCHE

Rhetoric begins by exploring the roots of persuasion in terms of its Classical origins and the ways its “definition” changed throughout the Middle Ages, Renaissance and Enlightenment. Armed with this foundation, Rhetoric then explores how recent history and our own culture resonates a sort of new “rhetoric”, the persuasion that saturates the mass marketing, advertising, entertainment and the media of our day. The class explores a variety of ways persuasion works, from the tactics of advertisers to the rhetoric of war propaganda. Rhetoric is also a course “in” rhetorical persuasion, pushing students to think critically, express ideas in writing and orally with greater eloquence and fluency. The class draws from primary and video sources, cultural images and a textbook. Rhetoric emphasizes writing, thematic thinking, and expression and class discussion.

English Required Courses

Classics and Composition I – Grade(s): 9 (Year course)

Prerequisite(s): none

Fee(s): Book fee

Repeat for Credit: no

NCAA

CCHE

The primary focus of Classics and Composition I is to expose students to a large body of classical literature. Throughout the year, they will encounter drama, poetry, and fiction that have shaped Western culture and its values. These works will be taught not merely as cultural artifacts to learn about, but as living works from which to learn. A second, but closely connected, emphasis of this course is to help students develop writing skills. Students will write frequently and generally in the context of literature. Assignments will encourage students to both engage with the ideas in literature and improve their own grammar and style by following the example of great authors.

Honors Classics and Composition I – Grade(s): 9 (Year course)

Prerequisite(s): Honors Application – See Honors Courses Expectations at the beginning of the course catalog.

Fee(s): Book fee

Repeat for Credit: no

NCAA

CCHE

The content and rigor of Honors classes are significantly higher than those found in traditional classes. Honors Classics and Composition I is a yearlong accelerated course for advanced-level students. The course will explore several great works beginning with Homer's Iliad, then progressing to the writings of Sophocles, A Christmas Carol, Romeo and Juliet, Metamorphosis, and ending with Ray Bradbury's classic dystopian novel Fahrenheit 451. Several poems and short stories, as well as the basics of formal logic, will also be explored. In addition, students will focus on expository writing with an emphasis on research skills, MLA citation and in-depth literary analysis. Grammar and vocabulary will be incorporated in the context of each writing assignment. Students who especially enjoy reading and discussing great literature and who plan to take AP English or other English honors courses would greatly benefit from this course. Homework will average 30-45 minutes per night.

Classics and Composition II - Grade(s): 10 (Year course)

Prerequisite(s): Classics and Composition I or Honors Classics and Composition I

Fee(s): Book fee

Repeat for Credit: no

NCAA

CCHE

In this course, students will improve their literary analysis skills through immersion in great novels and poems, as well as fine-tuning their writing skills through the study of grammar, vocabulary, logical argument, and various forms of composition. Beginning with The Odyssey, students shall master a number of excellent texts, including Sir Gawain and the Green Knight, A Tale of Two Cities, A Midsummer Night's Dream, Sense and Sensibility, Les Miserables, and Lord of the Flies. The primary goal of this class is for students to develop the ability to apply the tools of literary analysis in their own thoughtful interpretations of texts both orally and in writing.

Honors Classics and Composition II – Grade(s): 10 (Year course)

Prerequisite(s): Classics and Composition I or Honors Classics and Composition I; and Honors Application – See Honors Courses Expectations at the beginning of the course catalog

Fee(s): Book fee

Repeat for Credit: no

NCAA

CCHE

Honors Classics and Composition II is an accelerated course for advanced-level students. The course will explore several great works beginning with Homer's The Odyssey, then progressing to Sir Gawain and the Green Knight, A Tale of Two Cities, A Midsummer Night's Dream, Sense and Sensibility, Les Miserables, Lord of the Flies and ending with Bonhoeffer's Letters and Papers from Prison. Several poems, drama and non-fiction will also be explored. In addition, students will focus on expository writing with an emphasis on research skills, MLA citation and in-depth literary analysis. Grammar and vocabulary will be incorporated in the context of each writing assignment. Students who especially enjoy reading and discussing great literature, and who plan to take AP English or other English honors courses would greatly benefit from this course. Homework will average 30-45 minutes per night.

American Literature and Composition - Grade(s): 11 (Year course)

Prerequisite(s): Classics and Composition II or Honors Classics and Composition II

Fee(s): Book fee

Repeat for Credit: no

NCAA **CCHE**

American Literature and Composition is a study of our nation's literature from Colonial times to the present. The worldview and philosophy of each author is analyzed. The student's ability to critique the literature and philosophy of each author will be developed through the study of Puritanism, Deism, Romanticism, Transcendentalism, Realism, Naturalism, Modern Pessimism, and Post-modernism. This course will provide the student with an overview of the development of literature and thought in America. The philosophies developing in each period of American history will be discussed, and students will be taught to identify and critique the philosophy of each author. Historical and biographical information will be provided for each period and author to enable students to see the literature in its historical context. The understanding and appreciation of literature is gained by learning the necessary literary terms.

Honors American Literature and Composition – Grade(s): 11 (Year course)

Prerequisite(s): Classics and Composition II or Honors Classics and Composition II; and Honors Application – See Honors Courses Expectations at the beginning of the course catalog

Fee(s): Book fee

Repeat for Credit: no

NCAA **CCHE**

Honors American Literature offers a challenging class for interested, advanced-level students. The course will explore North American literature from the 1600s to the present day. Prose, poetry, and drama will be examined and interpreted. The composition focus will be divided between expository writing and essay test writing, but students who take this course are expected to enter as proficient writers who can easily write a five-paragraph thesis support essay. Expository writing will encompass research skills, literary analysis and MLA citation, including an independent reading and research project stretching over six months. Grammar will be reviewed in context of writing assignments. Extensive independent reading; in-depth literary analysis; writing, editing and revision; and participatory class discussion will be the foci of this course, and additional novels, plays and poetry are added, in addition to the normal 11th grade curriculum. Self-motivated, college-bound students who enjoy reading, discussion of literature and writing would benefit from this accelerated course. Homework will average 30-45 minutes per night.

Honors American Studies - English - Grade(s): 11 (Year course)

Prerequisite(s): Classics and Composition II or Honors Classics and Composition II; and World History/Geography 10 or AP European History; and Honors Application. See Honors Courses Expectations at the beginning of the course catalog

Co-requisite(s): Honors American Studies – History

Fee(s): Book fee

Repeat for Credit: no

NCAA **CCHE**

The American Studies course is designed to combine the current U.S. History course and the

American Literature course into a joint offering. The combined course would fill two periods on the student's schedule. The course would meet both the junior English and History mandatory requirements. The combined offering would allow for a more integrated approach to understanding what makes the United States unique.

World Literature and Composition - Grade(s): 12 (Year course)

Prerequisite(s): American Literature and Composition, Honors American Literature and Composition, or Honors American Studies- English

Fee(s): Book fee

Repeat for Credit: no

NCAA

CCHE

World Literature and Composition is a survey via extensive reading of representative authors in all major literary periods from countries around the world. The worldview of each period and of individual authors is analyzed and evaluated. The critical emphasis is on structure (grammatical, syntactical, and stylistic) and content (analysis and evaluation of period and author worldview), helping the student to become conversant with important elements of culture deriving from literature. It will also provide them with the skills necessary to read, analyze, and evaluate literature.

AP English Literature & Composition - Grade(s): 12 (Year course)

Prerequisite(s): American Literature and Composition, Honors American Literature and Composition, or Honors American Studies - English; and AP Application. See AP Courses Expectations at the beginning of the course catalog.

Fee(s): AP and book fees apply

Repeat for Credit: no

NCAA

CCHE

AP English Literature and Composition challenges students to read and interpret a wide range of imaginative works. The course invites students to explore a variety of genres and literary periods and to write clearly about the literature they encounter. On a daily basis, the class will read critically, think clearly, and write concisely. By the end of the course, students will have cultivated a rich understanding of literary works and acquired a set of analytical skills they will use throughout their lives.

AP English Literature and Composition offers students frequent practice interpreting and writing about literature. Students should feel comfortable analyzing the structure of a poem or story, the themes of a drama, or the style of an essay. They should also be able to identify various literary devices, such as figurative language or imagery, and to explain how those devices help to create meaning in a particular text. Students will write often, at least once a week, although their assignments will vary considerably. Some might be informal and exploratory; others might include research or work with literary criticism; and still others might be timed, so students can practice writing under conditions similar to those of the AP Exam. At the end of the course, all students will be required to take the AP English Literature exam for possible college credit.

Artes Liberales AP English Literature & Composition – Grade(s): 12 (Year course)

Prerequisite(s): Honors American Literature or AP US History or Honors American Studies, and completed course application (to include AP Application). See AP Courses Expectations at the beginning of the course catalog.

Co-requisite: Artes Liberales Civics American Government

Fee(s): AP and book fees apply

Repeat for Credit: no

NCAA

CCHE

The Artes Liberales course is designed to combine the current Civics course and the AP English Literature course into a joint offering. The combined course would fill two periods on the student's schedule. The course would meet both the senior English and History mandatory requirements. The purpose of combining these courses is to put both Civics and English into context, allowing for deeper examination of the major common themes shared by these subjects. The class will be co-taught by one English and one Civics teacher as a combined two-period block, allowing for greater appreciation of the inherent connections between these subjects in a true Liberal Arts manner.

English Electives

C.S. Lewis - Grade(s): 11-12 (Semester course) (Offered on a rotating basis)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

NCAA

CCHE

The C. S. Lewis course focuses on the life and writings of C. S. Lewis. Schooled in the classics and trained as a young man by a militant atheist and brilliant logician, Lewis serves as a model for persuasive rhetoric. This course on Lewis will analyze the clarity of his logic and argument, as well as the impact that such winsome discourse can have, regardless of the worldview of the writer. His writings will be examined against the backdrop of the scientific worldview prevalent among many of his contemporaries.

Great Women Authors A or Great Women Authors B – Grade(s): 9-12

(Offered on a rotating basis)

(Great Women Authors A and Great Women Authors B are separate semester courses)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

NCAA

CCHE

Great Women Authors is designed to enhance students' literary experience and appreciation by surveying a range of classic works not covered in required reading lists. Students will be introduced to additional novels by female authors already in the TCA curriculum, such as Jane Austen's *Sense and Sensibility* and Charlotte Brontë's *Jane Eyre*. In addition, we will examine further poetry by Emily Dickinson, Christina Rossetti, and Elizabeth Barrett Browning. Additional authors of merit will be introduced such as Dorothy L. Sayers, the British contemporary of C.S. Lewis, known for her mystery novels that featured her detective character Lord Peter Wimsey. Dorothy Sayers also wrote essays exhorting the benefits of classical education, such as "The Lost Tools of Learning," which serves as one of the foundational tenets of the TCA teaching philosophy. In addition to reading and appreciating fine literature, students will learn the historical and social background of the authors, write themes, discuss abstract concepts in writing, and discuss literature selections on a deeper level than plot and main characters alone.

Literary Magazine – Grade(s): 10-12 (Year course) (Offered on a rotating basis)

Prerequisite(s): Teacher approval for 10th graders.

Fee(s): none

Repeat for Credit: yes

CCHE

Literary Magazine is designed as an introduction to creative writing, both prose and poetry writing. Students will read and experience great literature. Students will also examine the writing processes of the great writers of the past and present. Literary Magazine explores students' interests and abilities in the various genres. The hope is that students will discover the pleasure of expressing themselves creatively through writing. Students will also learn techniques of editing as they critique writing of their own and of their colleagues in workshop fashion. The class is also

responsible for the creation and publication of a literary journal for TCA, incorporating their work and the work of other TCA faculty, staff and students.

Myths, Legends, & Fairy Tales - Grade(s): 10-12 (Semester course) (Offered on a rotating basis)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

NCAA

Myths, Legends, and Fairy Tales explores the commonalities between the tales of various cultures. Among other archetypes, the course examines the ubiquitous nature of the Cinderella figure, the creation myth, the fall, the story of the flood, the hero and his journey, and stories of transformation. Examples will be taken from Peter Pan, The Hobbit, the fairy tales of George MacDonald, and a multitude of short stories from around the world. This class encourages students to think about the great importance of myths for today's culture and what these stories show us about those who wrote them. The class will culminate with each student writing a myth, legend, or fairy tale and contributing it to a class anthology. This course does not meet CCHE requirement for an academic elective.

One Author, One Semester – Grade(s): 10-12 (Semester course) (Offered on a rotating basis)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

In the One Author course, students choose one author to read, discuss and analyze. The class will review the available literary criticisms of books by the author. Students will explore books by the chosen author in a "book club" format. Students are required to participate regularly in class. This course is for book lovers who love to discuss good literature. This course does not meet CCHE requirement for an academic elective.

Shakespeare – Grade(s): 10-12 (Semester course) (Offered on a rotating basis)

Prerequisite(s): none

Repeat for Credit: no

NCAA

CCHE

William Shakespeare needs no introduction. To be versed in more of the thirty-nine plays that he wrote, aside from the few that students encounter in the TCA core curriculum, would be akin to becoming a more knowledgeable English scholar. Clearly, by reading these rich pieces of text students have decided to be counter-cultural. (Ray Bradbury posthumously would be proud of the choice, no doubt.) Does the student currently read classics without prompting? Would the student enjoy rediscovering Shakespeare? Does Shakespeare's language enthrall, not terrify? Would the student savor the opportunity to act out various scenes from *Merchant of Venice*, *Richard III*, *King Lear*, *As You Like It*, *Twelfth Night*, and other plays by the foremost genius of the Elizabethan age? Would pondering the ideas contained therein--in seminar format--several times within the week be a stimulating way to spend a semester? Sign up for this fun and interactive elective where the bard takes center stage! After students in the class meet William Shakespeare, the Elizabethan age, the various plays, those plays specifically selected will be read, discussed, analyzed, and acted.

Writing/Reading Lab - Grade(s): 9-12 (Semester course)

(formerly called Reading/Writing Workshop)

Prerequisite(s): Reading/language comprehension/writing skills that fall below state or district guidelines and / or teacher recommendation.

Fee(s): none

Repeat for Credit: yes

Reading/Writing Workshop is an individualized course that is designed to assist and develop reading strategies in below grade level readers or writing strategies in struggling writers. Further reading assessments will determine strengths and weaknesses and an individualized literacy plan will be developed for each student. The course is designed to use oral language and written language to improve all types of communication. Instruction will utilize the modalities of book studies and extended independent reading periods to build vocabulary, fluency, comprehension, content area understanding and support, and oral/written responses. This course does not meet CCHE requirements for an academic elective.

Speech & Debate - Grade(s): 9-12 (Semester course)

Prerequisite(s): none

Fee(s): Course fee applies

Repeat for Credit: yes

NCAA

CCHE

Speech & Debate is designed to not only educate students in the basics of speech and debate, but also to provide The Classical Academy with a competitive speech and debate team. Students may learn the ins and outs of debate (Public Forum, Lincoln/ Douglas and Cross Examination) and Individual Events (Original Oratory, Duet Interpretation, Humorous or Dramatic Interpretation, Extemporaneous, and Poetry). Students are required to participate in a percentage of meets on Saturdays (both locally and in the Front Range region) to compete with other schools. Through the duration of this class, every student will learn how to compete in each event in order to find his/her strengths. This course has been taught as a yearlong course historically.

The Bible and Its Influence - Grade(s): 10-12 (Semester course) (Offered on a rotating basis)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

The Bible and Its Influence course surveys the Bible's influence on literature, art, and music. Students learn about the great works of literature (classic and contemporary poems, plays, novels, etc.) and art that were inspired by passages from the Bible. A primary goal of the course is basic Biblical literacy—a grasp of the language, major narratives, and characters of the Bible. The course does not promote any religious faith.

Math Courses That Meet Graduation Requirements

For a summary of possible Math Course options based on prerequisites, click on: [Math Flow Chart](#).

Note: There is specific equipment or supplies required (e.g. TI-83 calculator, etc.) for various Math courses. Please consult teachers for further information.

Algebra I - Grade(s): 9-10 (Year course)

Prerequisite(s): Pre-Algebra (recommended C- or better both semesters)

Fee(s): none

Repeat for Credit: no

NCAA **CCHE**

Algebra I completes the teaching of multiplication, division, subtraction, and addition of decimals, fractions, and integers, and the simplification and solution of equations and story problems. Percentages, fractions, decimals and their inter-conversion and use in everyday problems are especially stressed. Other topics include: area and perimeter, rate problems, unit conversions, simple substitution, work with variables, graphing, and solving equations. Students will also be taught the different algebraic properties to simplify single variable equations, and do extensive work with linear equations, factoring, and quadratic equation.

Algebra IB - Grade(s): 9-10 (Year course)

Prerequisite(s): Successful completion of Algebra IA or the first semester of Algebra I. Math Department places students (based on past performance and possible need for intervention.)

Fee(s): none

Repeat for Credit: no

NCAA **CCHE**

Algebra IB is the second semester of the Algebra I course (above), taught over the entire year. When paired with Algebra IA, the two courses are equivalent to Algebra I. It is meant for students who struggled with math in the past. Students taking Algebra IB should also consider taking the Math Lab course.

Geometry- Grade(s): 9-11 (Year course)

Prerequisite(s): Algebra I (recommended: C- or better in both semesters) Math Department places students (based on past performance and possible need for intervention.)

Fee(s): none

Repeat for Credit: no

NCAA **CCHE**

Geometry provides the student with an introduction to measurement, comparison, and logical proofs within the context of two-dimensional (planar) figures. Students also learn the basic techniques of geometric construction and how to apply their newly acquired skills to real-life applications. Beginning with the fundamental concepts of points, lines, and planes, the course in geometry proceeds through increasingly complex geometric figures (triangles, quadrilaterals, polygons),

introduces the student to applications of trigonometry, and finishes with an introduction to surface area and volume of simple three-dimensional figures (prisms, cylinders, spheres, etc.).

Algebra II - Grade(s): 9-12 (Year course)

Prerequisite(s): Algebra I and Geometry (recommended: C- or better in both semesters) Math Department places students (based on past performance and possible need for intervention.)

Fee(s): none

Repeat for Credit: no

NCAA

CCHE

Algebra II extends the principles learned in Algebra I to more abstract problems. It continues the application of simplifying and solving algebraic expressions, equations, and inequalities. This course deepens the student's understanding of graphing and solving different types of functions including linear, quadratic, polynomial, radical, exponential, logarithmic, and rational. Complex numbers, systems of equations, conic sections, and series will also be discussed. Students who have historically been on an advanced math track will be placed in sections that have faster pacing and some additional content.

Functions, Statistics and Trigonometry (formerly called Advanced Math)

Grade(s): 10-12 (Year course)

Prerequisite(s): Algebra II. Math Department places students (based on past performance and possible need for intervention.)

Fee(s): none

Repeat for Credit: no

NCAA

CCHE

This course is strongly recommended for all college-bound students not taking Pre-Calculus. It is recommended for many students before entering AP Statistics (students who perform well in Algebra II may go directly to AP Statistics). Functions, Statistics and Trigonometry provides additional mathematical background for students desiring a better foundation in mathematics, but not wishing to pursue Pre-Calculus. The course will cover much of the same material as Pre-Calculus but replaces portions of the content (such as trigonometric identities, complex numbers, analytic geometry, and parametric and polar equations) with topics in discrete mathematics, probability, and statistics.

Pre-Calculus - Grade(s): 10-12 (Year course)

Prerequisite(s): Algebra II (recommend C-test average or better in both semesters) Math Department places students (based on past performance and possible need for intervention.)

Fee(s): none

Repeat for Credit: no

NCAA

CCHE

In Pre-Calculus, students undertake the study of algebra, functions, analytic geometry, mathematical proof, discrete mathematics, and trigonometry necessary to build a foundation for success in AP Calculus, AP Statistics, and other areas of higher mathematics. The course incorporates extensive use of graphing calculators.

Advanced Quantitative Reasoning (AQR)

Grade(s): 10-12 (Year course)

Prerequisite(s): Algebra II. Math Department places students (based on past performance and possible need for intervention.)

Fee(s): no

Repeat for Credit: no

NCAA **CCHE**

AQR is a rhetoric-level math course that focuses on inquiry-based discovery of creative and efficient solutions to real-world problems. The course helps students develop college and career skills such as collaborating, conducting research, and making presentations. AQR is designed to serve students who are interested in a liberal arts college major or in entering the workforce. There is a strong emphasis on statistics, financial applications, and the use of mathematical models to solve complex problems in a wide range of applied contexts. AQR is intended to engage students in learning, exploring, and presenting relevant and challenging mathematical concepts. AQR is intended for students who have completed Algebra 2, do not need higher level math content, but still need a 4th year of math credit.

AP Calculus AB - Grade(s): 11-12 (Year course)

Prerequisite(s): AP Application and Pre-Calculus (recommend C+ or better in both semesters). See AP Courses Expectations on at the beginning of the course catalog.

Fees(s): AP testing fees apply

Repeat for Credit: no

NCAA **CCHE**

AP Calculus AB is a course in single-variable calculus that includes techniques and applications of the derivative, techniques and applications of the definite integral, and the Fundamental Theorem of Calculus. It is equivalent to at least a semester of calculus at most colleges and universities (perhaps to a year of calculus at some). Algebraic, numerical, and graphical representations are emphasized throughout the course. At the end of the course, all students will be required to take the AP Calculus AB exam for possible college credit.

AP Calculus BC - Grade(s): 11-12 (Year course)

Prerequisite(s): AP Application and AP Calculus AB (recommend C+ or better in both semesters). See AP Courses Expectations on at the beginning of the course catalog.

Fee(s): AP testing fees apply

Repeat for Credit: no

NCAA **CCHE**

AP Calculus BC is a course in single-variable calculus that includes techniques and applications of the derivative, techniques and applications of the definite integral, the Fundamental Theorem of Calculus, parametric equations, and series. It is a continuation of the AP Calculus AB course, and revisits some of the material from that course at a deeper level. It is equivalent to at least a semester of calculus at most colleges and universities (perhaps to a year of calculus at some). Algebraic, numerical, and graphical representations are emphasized throughout the course. At the end of the course, all students will be required to take the AP Calculus BC exam for possible college credit.

AP Statistics - Grade(s): 10-12 (Year course) (Offered on a rotating basis)

Prerequisite(s): AP Application; and Algebra II (C or better both semesters) or passing grade in Pre-Calculus or Functions, Statistics & Trigonometry (D- or better both semesters). See AP Courses Expectations on at the beginning of the course catalog.

Fee(s): AP testing fees apply

Repeat for Credit: no

NCAA

CCHE

AP Statistics will introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes to include: exploring data by observing patterns and deviations, planning a study by deciding what and how to measure, anticipating patterns by producing models using probability theory and simulation, and statistical inference by confirming models. At the end of the course, all students will be required to take the AP Statistics exam for possible college credit.

Math Electives

Math Lab - Grade(s): 9-12 (Year-long course)

Prerequisite(s): Math Department places students (based on past performance and possible need for intervention.)

Fee(s): none

Repeat for Credit: yes

This course is highly recommended for any student who achieved less than a C- average on all tests or earned a second semester grade of less than a C- in the previous math course or who is retaking a math course due to a failed grade in the previous year. The Math Lab course is designed to assist students who are performing below grade level in mathematics or who show weaknesses in math skills needed in the current math course. This course will focus on pre and post teaching as well as practice of the essential components needed for success in in their current math class. This yearlong course is an elective and does not meet the math requirements for graduation. This course does not meet CCHE requirements for an academic elective. This course does not meet CCHE requirements for an academic elective.

Science Courses That Meet Graduation Requirements

For a summary of possible science course options based field of study, click on: [Science Flow Chart](#).

Earth Science - Grade(s): 9-12(Year course)

Prerequisite(s): none

Fee(s): Lab fees apply.

Repeat for Credit: no

NCAA

CCHE

Earth Science aims to present an appreciation for nature through understanding what is now known of the characteristics of the Earth and space. This course is an inquiry-based class where students complete labs and activities that help them to understand the natural world surrounding them. The course emphasizes important concepts, understandings, and abilities that all students can use to make wise decisions, think critically, and understand and appreciate the Earth System. The goals for the course are to teach students the principles and practices of Earth Science and to demonstrate the relevance of Earth Science to their life and environment. Local and regional issues and concerns are used to stimulate problem-solving activities and to foster a sense of Earth stewardship by students, in their communities. Students will learn the basic components that make up the earth and where the earth stands in relationship to the rest of the heavens.

Biology - Grade(s): 9-12(Year course)

Prerequisite(s): none

Fee(s): Lab fees apply.

Repeat for Credit: no

NCAA

CCHE

Understanding how living organisms function and understanding the interactions between all living organisms and their environment are keys to being a good citizen in today's world. Biology begins with a brief review of the scientific method followed by a unit on Ecology. The remainder of the 1st semester will focus on the chemistry of life as well as the structure and function of cells (emphasizing the roles of various organelles). The study of cells will include cell membrane structure and function, cellular respiration, photosynthesis, the cell cycle, and meiosis. Second semester begins with genetics, DNA replication and protein synthesis. The unit on evolution focuses on population genetics, speciation and a look at the gene pool of organisms as related to survival and inheritance. Then, we will discuss how scientists classify organisms. About half of the 2nd semester will be spent studying the diversity of life: bacteria and other prokaryotes, protists, fungi, plants and animals. As many as five various animals will be dissected in order to compare their anatomies. Throughout the year, we will study and discuss various controversial issues in biology such as human impact on the environment, stem cell research and the use of genetic technology.

Honors Biology – Grade(s): 9-12 (Year course)

Prerequisite(s): Honors application. See Honors course expectations at the beginning of the course catalog.

Fee(s): Lab fees apply.

Repeat for Credit: no

NCAA

CCHE

The content and rigor of Honors classes are significantly higher than those found in traditional classes. Honors Biology is an accelerated, college preparatory course for exceptional students who enjoy science. Students will establish a conceptual understanding for modern biology and recognize unifying themes that connect major topics. Honor's Biology studies all topics included in Biology, but the topics are covered in more detail and depth. The class will provide a thorough foundation of fundamental cellular function, the molecular basis of inheritance, and plant and animal form and function with an emphasis on the evolutionary and ecological significance. Students will develop critical thinking skills through research and class discussions regarding current issues. Self-motivated students with excellent inference and reasoning skills are good candidates for Honor's Biology. Homework will average 30-45 minutes per night.

Chemistry-Grade(s): 9-12 (Year course)

(not recommended for grade 9 due to the abstract nature of the topic)

Prerequisite(s): Algebra I

Fees(s): Lab fees apply.

Repeat for Credit: no

NCAA

CCHE

Chemistry will provide students with a thorough understanding of the fundamentals of properties and interactions between different types of matter. Students will understand the structure of atoms, elements, and compounds. They will also comprehend the trends within the periodic table and how the atomic structure of elements affects their physical, chemical and bonding properties. Once this foundation is laid, chemical reactions and equations will be explored with a basic understanding of energy in reactions. Solutions, gas laws and equilibrium will also be covered. The students will apply their knowledge of the periodic law and reaction characteristics to everyday situations and in laboratory experiments with an emphasis on problem solving through unit conversion and stoichiometric calculations. Students will learn to use laboratory equipment in a safe and responsible fashion and to write clear and accurate reports of observations and conclusions made during the experiments they have conducted.

Honors Chemistry – Grade(s): 9-12 (Year course)

(not recommended for grade 9 due to the abstract nature of the topic)

Pre-requisite(s): Completion of or concurrent enrollment in Algebra II and Honors application. See Honors course expectations at the beginning of the course catalog.

Fee(s): Lab fees apply.

Repeat for Credit: no

NCAA

CCHE

The content and rigor of Honors classes are significantly higher than those found in traditional classes. Honors Chemistry will provide students with a thorough understanding of the fundamentals of properties and interactions between different types of matter. Honors Chemistry studies all the topics covered in chemistry, but in greater detail and depth. More advanced topics will also be included, such as nuclear chemistry, organic chemistry and electrochemistry. The students will apply their knowledge of chemistry to everyday situations and in laboratory experiments with an emphasis on problem solving through unit conversion and stoichiometric calculations. Particular emphasis will be placed on abstract reasoning, critical thinking and the ability to work in an independent manner. Students will learn to use laboratory equipment safely

and responsibly and will be expected to write detailed lab reports, using software to create tables and graphs.

Anatomy & Physiology - Grade(s): 10-12 (Year course)

Prerequisite(s): Biology

Fee(s): Lab fees and workbook fee apply.

Repeat for Credit: no

NCAA

CCHE

Anatomy and Physiology focuses on the major systems of the human body. It covers the basic Anatomy and Physiology focuses on the major systems of the human body. It covers the basic anatomical makeup of the body's organs, as well as how these organs function. In addition, homeostatic imbalances (disorders/diseases) will be examined in order to give the student a clearer picture of what happens when a system does not work properly. Microscope work, videos, dissection, lecture, and research are included. The subject material is taught at the college prep level; however, the instructor will progress at a speed suitable for high school students.

Introduction to Environmental Science - Grade(s): 9-12(year course)

Prerequisite(s): none

Fee(s): Lab fees apply.

Repeat for Credit: no

CCHE

Introduction to Environmental Science is a lab-based study of the environment and how human activities affect the interrelated biomes. Students will study general ecology, animal populations, global changes, soils, and air quality. Students will apply concepts from the classroom while studying local biomes.

AP Environmental Science - Grade(s): 10-12 (Year course)

Prerequisite(s): AP Application. See AP Courses Expectations on at the beginning of the course catalog.

Fees(s): Lab fees and AP testing fees apply.

Repeat for Credit: no

NCAA

CCHE

This class mirrors a college freshman level environmental science class in which human interaction with other natural systems is explored. Topics include general ecology, animal habitats, water quality, soils, air quality, energy resources, renewable and nonrenewable resources, and global changes. AP Environmental Science students are expected to be independent learners who come to class prepared to build on their previous knowledge about the world around them. Extensive labs are done on a weekly basis with class discussions, presentations, and lecture completing the course. At the end of the course, all students will be required to take the AP Environmental Science exam for possible college credit.

AP Chemistry - Grade(s): 10-12 (Year course)

Prerequisite(s): Chemistry (Honors Chemistry recommended), and Algebra II; and AP

Application. See AP Courses Expectations on at the beginning of the course catalog.

Fee(s): Lab fees and AP testing fees apply.

Repeat for Credit: no

NCAA

CCHE

This course is designed to be the equivalent of the general chemistry course usually taken during the first college year. AP Chemistry differs qualitatively from the usual first secondary school course in chemistry with respect to the kind of textbook used, the topics covered, the emphasis on chemical calculations and the mathematical formulation of principles, and the kind of laboratory work done by students. Quantitative differences appear in the number of topics treated, the time spent on the course by students, and the nature and the variety of experiments done in the laboratory. The course should contribute to the development of the students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. An AP Chemistry course should provide a laboratory experience equivalent to that of a typical college course. Students will probably need to spend at least five hours a week studying outside of class. At the end of the course, all students will be required to take the AP exam for possible college credit.

Physics - Grade(s): 9-12 (Year course)

Prerequisite(s): Algebra II with a C or higher

Fee(s): Lab fees apply.

Repeat for Credit: no

NCAA

CCHE

Physics is the study of the relationships and interactions between matter and energy. As such, the study of physics is considered to be foundational to the other classical sciences. This class includes the study of motion, forces, light and sound waves, electricity and magnetism, and nuclear energy. Students will learn the major laws of classical physics, learning how to apply these laws to explain and predict the behavior of matter and energy in a wide variety of conditions. Students will appreciate how the complexity of nature can be described by a relatively few number of principles and laws. Regular laboratory work within class will help the students to apply the principles they learn. Additionally, to supplement the lessons learned within the classroom, students will be expected to complete two group projects outside of school.

AP Physics 1: Algebra-Based Grade(s): 10-12 (Year course) (Offered on a rotating basis)

Prerequisite(s): Concurrently enrolled in Pre-Calculus or FST (Functions, Statistics & Trigonometry (formerly Advanced Math)) and AP Application. See AP Courses Expectations on at the beginning of the course catalog.

Fee(s): Lab fees and AP testing fees apply.

Repeat for Credit: no

NCAA

CCHE

AP Physics 1: Algebra-Based is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits.

AP Physics 2: Algebra-Based Grade(s): 10-12 (Year course) (Offered on a rotating basis)

Prerequisite(s): Concurrently enrolled in Pre-Calculus or FST (Functions, Statistics & Trigonometry (formerly Advanced Math)) and AP Application. See AP Courses Expectations at the beginning of the course catalog. **Note:** AP Physics 1 is NOT required as a prerequisite.

Fee(s): Lab fees and AP testing fees apply.

Repeat for Credit: no

NCAA **CCHE**

AP Physics 2: Algebra-Based is the equivalent to a second semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; atomic and nuclear physics.

AP Physics C (Mechanics only) – Grade(s): 10-12 (Year course) (Offered on a rotating basis)

Prerequisite(s): Completion of or concurrent enrollment in AP Calculus AB, and AP Application. See AP Courses Expectations at the beginning of the course catalog.

Fee(s): Lab fees and AP testing fees apply.

Repeat for Credit: no

NCAA **CCHE**

AP Physics C is a calculus based physics course that covers a wide range of topics, including: kinematics, force/motion, energy/momentum, rotation, and gravitation. This course ordinarily forms the first part of the college sequence that serves as the foundation in physics for students majoring in the physical sciences or engineering. At the end of the course, all students will be required to take the AP Physics C exam for possible college credit.

AP Biology - Grade(s): 10-12 (Year course)

Prerequisite(s): Biology and Chemistry, and AP Application. See AP Courses Expectations on at the beginning of the course catalog.

Fee(s): Lab fees and AP testing fees apply.

Repeat for Credit: no

NCAA **CCHE**

AP Biology is designed to be the equivalent of a two-semester General Biology course for college freshmen. The class is tailored to the needs of those students preparing to major in any natural and life science course of study. The course will follow a logical progression from the chemistry of life to the structure and function of cells to the diversity of living organisms to the interactions of all of the living organisms. However, as we move through this curriculum, the students will be making connections to previous content and putting the new information into the “big picture”. Students in AP Biology are expected to be independent learners who come to class prepared to build on their previous knowledge about the world around them. Students will complete all of the required AP Biology labs as well as other lab activities that will enhance the students' ability to practice the principles, procedures and techniques used to study and analyze living organisms in a laboratory setting.

Science Electives

Astronomy - Grade(s): 9-12(Semester course) (Offered on a rotating basis)

Prerequisite(s): none

Fee(s): Lab fees apply.

Repeat for Credit: no

NCAA **CCHE**

Astronomy is a course designed for the individual who has developed a curiosity for the heavenly bodies that make-up our universe. In this course, students will examine the universe and seek to understand its components more clearly. From cosmology to the seasons, this course raises in-depth questions that have been asked from the beginning of history; questions like: Is the universe finite or infinite? What is the shape of the universe? Do the stars actually move?

Geology - Grade(s): 9-12(Semester course) (Offered on a rotating basis)

Prerequisite(s): none

Fee(s): Lab fees apply.

Repeat for Credit: no

The Geology elective is a course designed to explore processes both below and above the surface of the earth. This journey will be enriched using several field excursions to both observe formations and collect field data. Also, mapping with new technologies, such as “global information systems” (GIS), will be used to analyze large geographic features. Some of the topics covered include: minerals, the rock cycle, volcanism, extrusion, geologic time, plate tectonics, hydrology, glaciations, wind and the formation of deserts. Within the GIS component of the class, students will produce enhanced maps from public domain satellite images, classify land structures from these images, and work on an independent research project using GIS and GPS technology.

Independent Science Research - Grade(s): 9-12(Semester course) (Offered on a rotating basis)

Prerequisite(s): none

Fee(s): Lab fees apply.

Repeat for Credit: yes

This unique course offers highly motivated students, with a strong interest in science, the opportunity to explore a science topic of interest. Students will develop an investigation to test an original question (experimental) or to solve a problem (engineering). Students will be encouraged to compete in numerous science competitions for monetary awards and scholarships with their completed investigation. This is a serious and challenging course for the motivated student wishing to pursue a degree in the STEM fields. This course does not meet CCHE requirement for an academic elective.

Sports Medicine – Grade(s): 11-12 (Semester course) (Offered on a rotating basis)

Prerequisite(s): Anatomy & Physiology

Fee(s): Sports Medicine fee applies.

Repeat for Credit: no

Sports Medicine is designed to use a combination of lecture and hands-on laboratory activities to

expose students to careers in the sports medicine field. Students will make connections between classroom information and kinesthetic activities in the weekly labs. Students will be required to complete research projects, presentations, and in-class Socratic Seminars. Course topics include: CPR and First Aid, Emergency Action Plans, Universal Precautions/OSHA, Intro to Sports Medicine, Anatomy & Physiology, Injury Types and Terminology, Concussions, Tissue Healing, General Modalities Principles, On-the-Field Injury Management, Medical Conditions, Pharmacology, Skin Conditions, and Nutrition. Students may have an opportunity to assist the TCA Athletic Trainer with sports teams for extracurricular credit/lettering opportunity. This course does not meet CCHE requirement for an academic elective.

Social Science Required Courses

World History Geography 9 – Grade(s): 9 (Semester course)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

NCAA

CCHE

9th graders will take the first semester of a three-semester sequence of World History/Geography covering the development of Western civilization from 1900 BC to AD 1492. World History/Geography takes students through the rich heritage of Western civilization focusing on Ancient Greek, Roman, and Medieval history. It provides the first phase of an integrated overview of world cultures, concentrating especially on Western culture. Please see World History/Geography 10 for a full description of the 3 semesters.

World History Geography 9 Honors – Grade(s): 9 (Semester course)

Prerequisite(s): Honors application. See Honors Courses Expectations at the beginning of the course catalog

Fee(s): none

Repeat for Credit: no

NCAA

CCHE

Honors World History is a semester-long accelerated course for advanced-level students covering the development of Western civilization from 1900BC to AD1492. In addition to providing a basic narrative of events and movements, the goals of the course are to develop (a) an understanding of some of the principal themes in Ancient Greek, Roman, and Medieval history, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing. To accomplish those goals, the Honors class will involve reading and analysis of significantly more primary sources and college level secondary sources than are present in the standard history course. It will also involve regular assignment of writing exercises that ask students to analyze and identify patterns to be found in historical evidence and/or documents. Students who plan to take AP European History as sophomores would greatly benefit from this course. Homework will be an average of 30-45 minutes per night.

World History Geography 10 - Grade(s): 10 (Year course)

Prerequisite(s): World History Geography 9 or World History Geography 9 Honors

Fee(s): none

Repeat for Credit: no

NCAA

CCHE

World History Geography is a three-semester course, beginning in 9th grade. It takes students through the rich heritage of world civilizations. This course begins with an introductory treatment of the world's earliest civilizations. It provides students with an integrated overview of world cultures, concentrating especially on Western culture. A partial list includes: the Classical Age of Greece, the Roman Republic and Empire, the Middle Ages, the Renaissance and Reformation, the Ages of Reason and Revolution, the First and Second World Wars, the Cold War, and present day conflicts. Students will analyze not only the history of each major era, but also its theology

and philosophy, literature and drama, art and architecture, and music, learning too the geography relevant to the history studied. This course includes the study of several recurring themes: revolution and reaction, power and authority, diversity, religion and ethical systems, economics, cultural interaction and expression, conflict and cooperation, rights and responsibilities, and science and technology. The content of history is thereby utilized as a basis to develop higher-order thinking skills in critical reasoning. Ultimately, students will develop the ability to analyze societal forces from a variety of perspectives. (World History Geography 9 is a semester course. World History Geography 10 is a year course.)

AP European History - Grade(s): 10-12 (Year course)

Prerequisite(s): AP Application See AP Courses Expectations at the beginning of the course catalog. World History Geography 9 or World History Geography 9 Honors.

Fee(s): AP testing fees apply.

Repeat for Credit: no

NCAA **CCHE**

AP European History is a college introductory level course for qualified students that explore European history from 1450 to present. This course introduces the key cultural, political, economic, artistic, intellectual and social developments that shaped this era. In addition to providing a basic narrative of events, the course will also emphasize analyzing historical evidence, making connections between different events, and gaining the ability to express historical ideas and arguments in writing.

U.S. History/Geography - Grade(s): 11 (Year course)

Prerequisite(s): World History Geography 10 or AP European History

Fee(s): none

Repeat for Credit: no

NCAA **CCHE**

U.S. History/Geography seeks to familiarize students with the sequence of significant political, social, economic, diplomatic, and religious events, which have led to the current condition of the United States. Integrated with this, students will be required to have a working knowledge of the overall geography of North America. Several specific areas and changes within them will be examined, including: the historical and ideological founding of the U.S., the history of the U.S. from foundation to its rise as a world power, the technological revolution, the U.S. economic system, and the nation's shift in ideologies over time.

AP U.S. History/Geography - Grade(s): 11-12 (Year course)

Prerequisite(s): AP Application. See AP Courses Expectations on at the beginning of the course catalog. World History Geography 10 or AP European History

Fee(s): AP testing fees apply.

Repeat for Credit: no

NCAA **CCHE**

AP U.S. History/Geography is a college level option for students who would like a more in depth study of American History. The course focus follows a skill set/periodization model.

Honors American Studies - History - Grade(s): 11(Year course)

Prerequisite(s): Classics and Composition II or Honors Classics and Composition II; and World History Geography 10 or AP European History; and Honors Application. See Honors Courses Expectations at the beginning of the course catalog.

Co-requisite(s): Honors American Studies – English

Fee(s): none

Repeat for Credit: no

NCAA

CCHE

The Honors American Studies – History course is designed to combine the current U.S. History course and the American Literature course into a joint offering. The combined course would fill two periods on the student’s schedule. The course would meet both the junior English and History mandatory requirements. The combined offering would allow for a more integrated approach to understanding what makes the United States unique.

Civics/American Government - Grade(s): 12 (Year course)

Prerequisite(s): U.S. History/Geography, Honors American Studies - History or AP U.S. History/Geography

Fee(s): none

Repeat for Credit: no

NCAA

CCHE

Civics/American Government will teach students the history and values of representative government, the federal constitution, the function of both our state and local governments and analyze classic political problems (logrolling, pork barreling, term limits, etc.). In conjunction with The Classical Academy’s focus on a classical education, the course will also read important selections from the ancients on the proper role of the state and/or the statesman and contrast them with “modern” “realpolitik” or “Machiavellian” conceptions of what makes a good ruler. Thus, students will learn both about the theory of government and the practice of it. Also, they will understand why our institutions are the way they are and the benefits and the cost those institutions impose on us as citizens.

Artes Liberales Civics/American Government - Grade(s): 12 (Year course)

Prerequisite(s): Honors American Literature or AP US History or Honors American Studies, and completed course application.

Co-requisite: Artes Liberales AP English Literature and Composition

Fee(s): none

Repeat for Credit: no

NCAA

CCHE

The Artes Liberales course is designed to combine the current Civics course and the AP English Literature course into a joint offering. The combined course would fill two periods on the student’s schedule. The course would meet both the senior English and History mandatory requirements. The purpose of combining these courses is to put both Civics and English into context, allowing for deeper examination of the major common themes shared by these subjects. The class will be co-taught by one English and one Civics teacher as a combined two-period block, allowing for greater appreciation of the inherent connections between these subjects in a

true Liberal Arts manner.

AP Government and Politics: United States - Grade(s): 12 (Year course)

Prerequisite(s): U.S. History/Geography, Honors American Studies - History or AP U.S. History/Geography and AP Application. See AP Courses Expectations at the beginning of the course catalog.

Fee(s): AP testing fees apply.

Repeat for Credit: no

NCAA

CCHE

AP Government and Politics: United States will serve as a substitute for the Civics course for students that would like a greater challenge and would like the chance to earn college credit. The course will teach students the history and values of representative government, the function and application of the Constitution, and the function of state, local and federal governments. Students will analyze classic political questions, Supreme Court decisions, and the process of governing. Students will also consider the unique approach of American government and the motivations of those who participate in government at all levels.

Social Science Electives

Ancient Military History - Grade(s): 9-12 (Semester course) (Offered on a rotating basis)

Prerequisite(s): none

Fees(s): none

Repeat for Credit: no

NCAA

CCHE

Military History A is a semester survey course that considers the great military campaigns from the ancient world to the end of the Napoleonic Era in 1815. Topics include the Persian Wars, Peloponnesian War, Alexander the Great, Julius Caesar Battle of Hastings, the Hundred Years' War, the 30 Years' War, The English Civil War, Wars of Louis XIV, and the wars of Napoleon Bonaparte.

Modern Military History - Grade(s): 9-12 (Semester course) (Offered on a rotating basis)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

NCAA

CCHE

Military History B is a semester survey course that considers the great military campaigns from the American military experience and world history since 1815. This course focuses on “modern” military history, starting with the Civil War, and continuing to the Cold War.

Psychology - Grade(s): 11-12 (Semester course)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

CCHE

Psychology will introduce students to the study of human behavior and mental development. Students will be introduced to psychological facts, principles, and phenomena associated with many different areas of psychology. Areas of study may include the history of psychology, neuroscience, sensation, perception, emotion, problem solving and intelligence, memory, creativity, principles of learning and motivation, human development, personality theory, stress, and socio- cultural influences. Although some common psychological disorders are discussed, abnormal psychology will not be an emphasis of the course. **Note:** In the 2016-17 school year, Psychology changed from a yearlong course to a one-semester course.

AP Psychology - Grade(s): 11-12 (Year course)

Prerequisite(s): Health and Wellness and Biology

Fee(s): none

Repeat for Credit: no

NCAA

CCHE

The AP Psychology course is designed to introduce students to the systematic and scientific study of behavior and mental processes of human beings and animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields

within psychology. Students also learn about the ethics and methods psychologists use in their science and practice. The AP Psychology course will reinforce and provide a greater depth of understanding of many of the mental health issues introduced in the Health and Wellness course.

World Religions - Grade(s): 10-12 (Semester course) (Offered on a rotating basis)

Prerequisite(s): none

Repeat for Credit: no

World Religions focuses on the religious history and thought of five major world religions: Hinduism, Buddhism, Judaism, Christianity, and Islam. It will examine the roots of these religions and their beliefs, art, architecture, practices, and culture. Each religion will then be examined in its modern context in the world today.

Foreign Language Courses that Meet Graduation Requirements

TCA graduation requirements include the completion the equivalent of Latin I and successfully complete (D- or above grade) three years in a single language. Students who successfully completed all four semesters of 7th Classical Foundations A and 8th Classical Foundations B at TCA junior high meet the Latin I graduation requirement. If a student wants to complete the language graduation requirement with Latin, he/she must take three years of Latin in high school.

Latin I - Grade(s): 9-12 (Year course)

Prerequisite(s): none

Fee(s): Workbook fee applies.

Repeat for Credit: no

NCAA

CCHE

Latin I provides the student with a complete introduction to the language. Students will acquire a working Latin vocabulary and begin an in-depth study of basic Latin grammar. Students who have taken Latin at The Classical Academy in the lower schools will build on that foundation and will also begin translations from classical and medieval traditions. Students study Roman history and culture as well as Greek and Roman mythology. The student will understand the rudiments of Latin grammar and vocabulary. They should be able to analyze a passage in Latin, translate the sense, and explain the translation. Students will also be able to identify certain case and verb endings. By the end of the year, they will also have an appreciation for the beauty of Latin as a language.

Latin II - Grade(s): 9-12 (Year course)

Prerequisite(s): Latin I or four semesters of Classical Foundations in 7th and 8th grades

Fee(s): Workbook fee applies.

Repeat for Credit: no

NCAA

CCHE

Latin II provides students with a thorough continuation of their study of the Latin language. The students will greatly increase their Latin vocabulary and continue in-depth study of Latin grammar. Students will continue translation work from classical sources, as well as authors of the middle Ages. Students will continue study of Roman culture and history as well as Greek and Roman mythology. Students will define and correctly utilize the main elements of more advanced Latin grammar and vocabulary. They should be able to analyze a passage in Latin, translate the sense into idiomatic English, and explain the translation. Students will also be able to identify key case and verb endings. By the end of the course, students will be able to translate moderately difficult passages from Latin.

Latin III - Grade(s): 11-12 (Year course)

Prerequisite(s): Latin II

Fee(s): Workbook fee applies.

Repeat for Credit: no

NCAA

CCHE

Latin III is a transition course in which students move from an emphasis on grammar and the

translation of ‘made Latin’ sentences and stories to an encounter with the real Latin literature of the classical Roman period. This course combines an anthology of prose and poetry readings with a grammatical review to reinforce past courses.

French I - Grade(s): 9-12 (Year course)

Prerequisite(s): none

Fee(s): Workbook fee applies.

Repeat for Credit: no

NCAA

CCHE

French I is designed to introduce students to the French language. It provides introductory training in listening, speaking, reading, and writing. In addition to lessons in grammar and orthography, the course will also introduce students to French and francophone literatures and cultures. The aim of this course is for students to acquire a basic vocabulary of around 1,000 words, the faculty to understand and use some basic conversational expressions, and knowledge of elementary grammar and orthography. Expressions, vocabulary, and grammatical structures will be learned through classroom exercises, workbook exercises, audio, and video. An additional aim of this course is awareness and appreciation of French speaking cultures and their influence on our own culture.

French II - Grade(s): 10-12 (Year course)

Prerequisite(s): French I

Fee(s): Workbook fee applies.

Repeat for Credit: no

NCAA

CCHE

French II is designed as a continuation of French I and is for students who have a rudimentary knowledge of basic French grammar and conversational expressions. It leads students further into the French language and provides more extensive training in listening, speaking, reading, and writing. In addition to lessons in grammar and orthography, the class will continue to introduce students to French and francophone literatures and cultures. The aim of this course is for students to acquire a basic vocabulary of around 3,000 words, the faculty to understand and employ basic conversational expressions, and to acquire a more extensive knowledge of grammar, orthography, and French and francophone cultures.

French III - Grade(s): 11-12 (Year course)

Prerequisite(s): French II

Fee(s): Workbook fee applies.

Repeat for Credit: no

NCAA

CCHE

French III is an advanced conversational French class that is designed to perfect the student’s skill in understanding, speaking, reading, and writing French. Consequently, the student is expected to speak only French in the classroom. This course prepares the student for further work in French and francophone literature, language, and cultural studies, and prepares and equips the student for cultural immersion. The aim of this course is for the student to converse, read, and write in French at an advanced level.

Spanish I - Grade(s): 9-12(Year course)

Prerequisite(s): none

Fee(s): Workbook fee applies.

Repeat for Credit: no

NCAA

CCHE

Spanish I is a year of developing core language skills. The focus will be on basic communication through dialogues, listening exercises and writing sentences used in real life situations. The first year students will be able to ask and answer questions in the present and simple past tenses. An understanding of the overall sentence structure of Spanish begins here with the mastery of the most commonly used regular and irregular verbs. Vocabulary development centers on: sports and leisure time activities, family, friends, food, clothes, essential travel vocabulary, and other fundamental topics. Students will perform skits and dialogues in the language and create visual art projects in conjunction with oral presentations to practice and master language concepts. Latin culture will also be studied in order to learn how it compares and contrasts to the student's own culture.

Spanish II - Grade(s): 10-12 (Year course)

Prerequisite(s): Spanish I

Fee(s): Workbook fee applies.

Repeat for Credit: no

NCAA

CCHE

Spanish II students begin with a thorough review of the structures and vocabulary of the previous year. Study continues with the introduction of more complex aspects of the language such as: reflexive verbs and additional verb tenses (imperfect, present and imperfect progressive and future), regular and irregular verbs, comparative and superlative forms of adjectives and adverbs, and possessive adjectives and pronouns. Students produce various oral and visual art projects to practice the material, refining their writing skills through the creation of projects and compositions. Students read in Spanish about travel, geography, history, and other aspects of culture.

Spanish III – Grade(s): 11-12 (Year course)

Prerequisite(s): Spanish II

Fee(s): Workbook fee applies.

Repeat for Credit: no

NCAA

CCHE

Spanish III is the next sequential class for students who have successfully completed Spanish I and Spanish II. It continues the study of the many Spanish verb tenses and vocabulary while increasing the student's command of the most commonly used grammatical structures. The student is expected to speak mainly Spanish in the classroom. More colloquial and conversational phrases are presented and students are given many opportunities to use the language in paired and group activities. Students will continue to build on their speaking, reading, writing and listening skills and increase their confidence in comprehending and expressing themselves in the Spanish language.

Pre-AP Spanish III - Grade(s): 11-12 (Year course)

Prerequisite(s): B or better in Spanish II

Fee(s): Workbook fee applies.

Repeat for Credit: no

NCAA

CCHE

Pre-AP Spanish is designed for the advanced student who wants a more challenging class. It provides intensive completion of the items listed for Spanish III, but elaborates in more depth of the language. The student must be motivated and the class will require active participation from each and every student, daily.

Foreign Language Electives

French IV - Grade(s): 12 (Year course) (Offered on a rotating basis)

Prerequisite(s): French III

Fee(s): Workbook fee applies

Repeat for Credit: no

NCAA

CCHE

French IV is a continuation of the skills of French III with emphasis on oral and written expression through the use of French and francophone literature and film. The course will include grammar review and culture studies of contemporary France.

Latin IV - Grade(s): 12 (Year course) (Offered on a rotating basis)

Prerequisite(s): Latin III

Fee(s): Workbook fee applies

Repeat for Credit: no

NCAA

CCHE

In Latin IV students will read selected works of great Latin authors such as Cicero, Ovid, Horace and Vergil. Students will focus on writing accurate translations as well as providing meaningful commentary and analysis. Emphasis will be placed on the literary, cultural and historical contexts of the authors and their works.

Latin V - Grade(s): 12 (Year course) (Offered on a rotating basis)

Prerequisite(s): Latin IV

Fee(s): Workbook fee applies

Repeat for Credit: no

NCAA

CCHE

Latin V is a continuation of reading authentic Latin texts as begun in Latin IV. Students will read texts from authors such as Cicero, Caesar, Livy, Pliny, Ovid, Horace, and Vergil. In a seminar environment, students will continue practicing their skills in reading Latin as Latin while also focusing on the literary, cultural, and historical contexts of the authors and their works. In addition, students will also gain practice listening to and speaking Latin in the classroom.

Spanish IV – Grade(s): 12 (Year course) (Offered on a rotating basis)

Prerequisite(s): Spanish III or Pre-AP Spanish III

Fee(s): Workbook fee applies

Repeat for Credit: no

NCAA

CCHE

Spanish IV is a course designed to strengthen the skills mastered during Spanish I, II, and III. It is a two-semester course that provides intense practice at a high level and is intended to build on the linguistic competencies previously developed in previous years of Spanish study. The class is conducted in Spanish and you will be expected to use Spanish in every aspect of this course. Grammar taught in the previous three years will be reviewed; however, the majority of the course will be focusing on improving linguistic skills via Hispanic literature and culture. The instructional materials, coursework and classroom practice are prepared for this level of proficiency.

Fine Arts Courses That Meet Graduation Requirements

Fine Arts Graduation Requirements: Students who successfully complete an upper level choir at The Classical Academy for the junior AND senior year; or successfully complete four years in The Classical Academy's high school band (Wind Ensemble, Percussion Ensemble, and/or Symphonic Band); or complete Art I, Art II, III and Art IV fulfill the Art/Music Appreciation requirement. All other students must complete the Art/Music Appreciation course in the junior or senior year AND one additional fine arts elective.

Art/Music Appreciation - Grade(s): 11-12 (Semester course)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

CCHE

Art and Music Appreciation is a requirement for graduation as a critical part of The Classical Academy's approach to educating the whole child. Students need to understand the role the arts have on civilization; moreover, rhetoric is best assimilated by the study and emulation of those who have done it best. Students will examine the works and lives of musicians and visual artists throughout history and from various cultures, evaluating the impact these artists have had on their environment, and history. Basic instruction in music and art theory will be offered as well.

Percussion Ensemble (Year course)

Prerequisite(s): Audition

Fee(s): Band fees apply

Repeat for Credit: yes

CCHE

This is a class of percussion techniques comprised of high school percussionists of all levels from intermediate to advanced proficiency. This class aims to strengthen and develop players' ability to read rhythm and melodic notation while also instructing and reviewing the fundamental performance pedagogy and performance techniques used for all of the instruments within the percussion section. In the fall, the focus lies mainly in the reading, learning and performance of marching band percussion literature – battery and front ensemble. Members of the ensemble perform as members of the Titan Marching band drum line or front ensemble as an educational opportunity in the learning of the American art of marching band and its music, the regiment disciplines of a marching ensemble, and to provide a community service to our school. In late October, the focus shifts to concert percussion literature and techniques. At this time through the end of the year, players function as members of a percussion ensemble, and as members of either the symphonic band or wind ensemble based upon audition and performance proficiency. Classroom concentration lies in the preparation of high school literature of varying levels, and listening to and performing various styles of concert band and marching band literature. Throughout the year, focuses also include music theory, music history, and the development of aural skills.

Symphonic Band (Year course)

Prerequisite(s): Audition

Fee(s): Band fees apply

Repeat for Credit: yes

CCHE

This class is a performance ensemble comprised of high school instrumentalists of an intermediate proficiency level. This ensemble performs three to four times a year with classroom concentration in the preparation of intermediate level band music, listening to and performing various styles of concert band literature and orchestral transcriptions. In the fall, members are expected to march in our Titan Marching band as an educational opportunity in the learning of the American art of marching band and its music, the regiment disciplines of a marching ensemble, and to provide a community service to our school. Throughout the year, focuses also include further exploration and development of fundamental pedagogy, development of rhythm and note reading skills, music theory, music history, and the development of aural skills.

Wind Ensemble (Year course)

Prerequisite(s): Audition

Fee(s): Band fees apply

Repeat for Credit: yes

CCHE

This is performance ensemble comprised of high school instrumentalists with moderate to high-level proficiency on their instrument. Students must be recommended for this ensemble. The Wind Ensemble performs five to seven times per year with classroom concentration in the preparation of advanced concert band literature, listening to and performing various styles of band literature and orchestral transcriptions. In the fall, members are expected to march in our Titan Marching band as an educational opportunity in the learning of the American art of marching band and its music, the regiment disciplines of a marching ensemble, and to provide a community service to our school. Throughout the year, focuses also include music theory, music history, and the development of aural skills.

Art I - Grade(s): 9-12 (Year course)

Prerequisite(s): none

Fee(s): Visual arts fee applies

Repeat for Credit: no

CCHE

Art I will lay a foundation of art information and skills that will benefit all students: the “Layman” and the “Artist” alike. Based on the academic content in the Core Knowledge guidelines, the class will emphasize observational drawing and building artistic skills. The course will also serve as an introduction to fundamental artistic media. With the belief that everyone can create visual images, all TCA students are encouraged to submit themselves to the joy and rigors of this course.

Art II - Grade(s): 10-12 (Year course)

Prerequisite(s): Art I

Fee(s): Visual arts fee applies

Repeat for Credit: no

CCHE

Art II will build upon the foundation laid in Art I. Students will develop additional skills and knowledge in the visual arts. Expectations of individual expression in original work will increase as students are given opportunities to explore additional media. Students will continue to interpret the meaning of art works, developing a deeper understanding of the relationships between the arts and philosophy.

Art III - Grade(s): 11-12 (Year course)

Prerequisite(s): Art II

Fee(s): Visual arts fee applies

Repeat for Credit: no

CCHE

Art III will build upon the foundations laid in Art I & II. Students will continue to develop skills and knowledge in the visual arts. Expectations of individual expression in original work will continue to increase. Students will be expected to become more self-directed in regards to both conception and implementation of ideas. A self-disciplined work ethic is expected to emerge. Students will continue to become familiar with and interpret the meanings of historical works.

Art IV [Studio Art] - Grade(s): 12 (Year course)

Prerequisite(s): Art III

Fee(s): Visual arts fee applies

Repeat for Credit: no

CCHE

Art IV class instruction will be minimal. Students will be almost entirely self-directed as they produce a portfolio of works and study historical works of their choice. Students taking Art IV have the option of working toward the completion of an AP portfolio.

Introduction to Theatre - Grade(s): 9-12 (Semester course)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

CCHE

Introduction to Theatre combines instruction in skills for beginning students who are interested in either acting or public speaking and to help start an eye for discernment for what is good art. Students will be required to deliver speeches, participate in group projects, participate in class exercises, and complete three short written “reviews” of entertainment in their world. Emphasis will be placed on beginning skills (staging, voice, movement) for any student who wishes to be involved in the theatre, or just build confidence being in front of people.

Beginning Acting - Grade(s): 10-12 (Semester course)

Prerequisite(s): Introduction to Theatre

Fees: none

Repeat for Credit: no

CCHE

Beginning Acting will develop the techniques of acting. The students will learn how to develop three-dimensional characters and portray emotions. Emphasis will be on using improvisational skills and memorized script work.

Advanced Acting - Grade(s): 11-12 (Semester course)

Prerequisite(s): Intro to Theatre and Beginning Acting

Fee(s): none

Repeat for Credit: yes

CCHE

Advanced Acting continues development of acting skills and starts to develop technical skills. The students will learn about the art of directing through a semester end directing project (One Acts). The students will study various styles of acting and concepts using the methods of the great acting teachers throughout the history of the theatre.

Overview of Choirs

In all five of the choirs listed below, students are instructed in the basic fundamentals of music while being given an opportunity to experience character-building choral teamwork. Emphasis is placed on establishing good vocal technique, general musicianship, sight singing, and aural skills. Basic elements of music theory are also reviewed and applied. Students learn to sing harmonically and communicate through song while gaining a better understanding of musical interpretation through a varied repertoire. Vocal exercises are used at the beginning of each class to help students develop good vocal technique. Vocal skills such as placement, proper breathing, posture, vowel formation, and diction are regularly developed. Performances are scheduled as required rhetorical events—times to display objective mastery while providing school and community enjoyment. The choir directors determine student placement into each choir through a composite score, which includes, but is not limited to, the written, aural, and vocal proficiency tests. Audition(s) may be required in some circumstances. Fees/expenses will include high school concert clothing (the same concert dress is used throughout high school but differs from junior high choir clothing) and annual festival and/or field trip costs, as well as a small supplies expense. A few scholarships are available. See the Director with any questions or concerns.

Cantatores (Year course)

Prerequisite(s): none

Fee(s): Choir fees apply.

Repeat for Credit: no

CCHE

There is no experience requirement for students who sing in Cantatores. However, expectations

for quality effort and musical development will remain high. Skills that are developed in this group will be valuable for growth as a vocal/choral musician. Students in this group will participate in at least two or more concerts throughout the year in addition to the Vocal Variety Show. Additional performances may be scheduled. Students will perform as a mixed voice choir throughout the year. They may have opportunities to perform as separate women's and men's groups as well.

Cantemus (Year course)

Prerequisite: Two years of choir experience beginning with the 8th grade OR composite score with director's signature permission to participate at a higher level of experience.

Fees: Choir fees apply.

Repeat for Credit: yes

CCHE

This group will work at an intermediate high school level regarding theory and vocal/ choral technique. Students in this group will participate in at least two or more concerts throughout the year as well as the Vocal Variety Show. Additional performances may be scheduled for this group. Students in this group will perform as a mixed voice choir throughout the year; they will also work/perform as separate women's and men's ensembles. Students are asked to meet a basic proficiency requirement for music theory. This includes, but is not limited to, sight-reading in solfège, melodic and rhythmic notation and study of key signatures. This is an upper level choir per TCA graduation requirements.

Corda Musica Women's Ensemble (Year course)

Prerequisite(s): Composite score and teacher recommendation

Fee(s): Choir fees apply.

Repeat for Credit: yes

CCHE

Corda Musica Women's Ensemble was designed to provide young women with the opportunity to participate in an intensive small ensemble experience within a challenging and enjoyable environment. This fast-paced group will be open to high school women whose composite scores on the high school proficiency tests cause them to receive a recommendation from their current vocal music teacher. Members of this group may be required to participate in multiple performance-related activities during the course of the school year. Students are expected to advance in theory and vocal skills with each year of participation in this ensemble. Individualized feedback on vocal technique and other aspects of vocal musicianship are a regular part of this class. The class was created to maintain a 9th -12th grade interactive environment where seniors, in particular, will serve as role models in rehearsal while providing musical leadership. Openings for this class are determined by distribution of grade level and balance of voice parts. This is an upper level choir per TCA graduation requirements.

Mixed Voice Ensemble: Jubilate (Year course)

Prerequisite(s): Composite score and teacher recommendation

Fee(s): Choir fees apply.

Repeat for Credit: yes

CCHE

Jubilate Mixed Voice Ensemble was designed to provide young men and women with the opportunity to participate in an intensive mixed voice small ensemble experience within a challenging and enjoyable environment. The secondary purpose for this group is to develop same-gender small ensembles, which allow for more individualized feedback in vocal technique, pitch, and intonation. This fast-paced group will be open to high school men and women whose composite scores on the high school proficiency tests cause them to receive a recommendation from their current vocal music teacher. Members of this group may be required to participate in multiple performance-related activities during the course of the school year. The class was created to maintain a 9th -12th grade interactive environment where seniors, in particular, will serve as role models in rehearsal while providing musical leadership. Openings for this class are determined by distribution of grade level and balance of voice parts. This is an upper level choir per TCA graduation requirements.

Concordia (Year course)

Prerequisite(s): 4 years of choir experience beginning with the 8th grade OR composite score with director's signature permission to participate at a higher level of experience.

Fee(s): Choir fees apply.

Repeat for Credit: yes

CCHE

This group will work intensively in the areas of higher-level repertoire study and vocal/choral technique; during the course of the year, it may perform at additional events such as the Veteran's Day Assembly or the Fine Arts Assembly. Throughout the year, students in this group will perform as a mixed voice choir and may also split out into two smaller ensembles of various voicings. Members of this group are expected to act as role models for the members of other TCA choirs. Students carry the responsibility of performance equipment set up and tear down. Student leadership within the classroom is also expected. In addition, Concordia students will participate in rhetoric level discussions regarding the selection of quality repertoire for their own performance purposes. It has become a tradition for Concordia to seek out a collegiate level piece that they will strive to learn and perform. This is an upper level choir per TCA graduation requirements.

Business/Computer Required Courses

Computer Science Graduation Requirements: Can be fulfilled with passing grades in all four semesters of 7th and 8th grade Computer classes at TCA; otherwise, a student needs to take and pass Computer Applications or Introduction to Computer Science, pass the Computer Applications Competency Assessment, or take and pass another semester computer course approved by administration.

Computer Applications - Grade: 9-12 (Semester course)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

CCHE

Computer Applications is designed to teach the general computer application concepts the students are likely to encounter in future education and future jobs. These concepts include, but are not limited to word processing, spreadsheets, presentations, databases, and the Internet. The course will include classes on terminology of the computer system, copyright, personal safety, and cyber security. Software utilized will be Microsoft Word, Excel, Access, Publisher, and PowerPoint.

Introduction to Computer Science – Grade(s): 9-12 (Semester course)

Prerequisite(s): Algebra I

Fee(s): none

Repeat for Credit: no

NCAA

CCHE

Introduction to Computer Science enables students to gain excellence in language, logic, and analytical thinking. It teaches students to deconstruct complex problems into simpler, logic-based, language-specific elements and then to integrate those elements into a solution. Students exercise creativity as they develop solutions and receive near-immediate feedback on the consequences of any language, logic, or analytic errors. Students will also develop programs as tools to explore concepts in other disciplines. Furthermore, this course gives students a positive foundation in digital citizenship, by broadening their understanding of how computer systems work, as well as the limitations and ethical considerations of their use. Accordingly, students who take this course will be better prepared to use technology responsibly.

Introduction to Business - Grade: 9-12 (Semester course) (Offered on a rotating basis)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

Introduction to Business introduces students to business concepts and terminology. Studies include organization, production, labor, accounting, marketing, and finance. It also includes an introduction to economic theory. This course does not meet CCHE requirements for an academic elective.

Personal Finance - Grade(s): 9-12 (Semester course)

Prerequisite(s): none

Fee(s): Course fee applies

Repeat for Credit: no

Personal Finance will include such topics as money management, banking, investing, insurance, credit, real estate, and taxes. The course will help students learn and apply basic financial principles. By the end of the semester, the students will better understand advantages and disadvantages of different investment choices, costs and benefits to using credit, and how to become financially independent. This course does not meet the CCHE requirements for an academic elective.

Robotics - Grade(s): 9-12 (Semester course)

Prerequisite(s): none

Fee(s): Course fee applies

Repeat for Credit: yes

Robotics will introduce the students to a different area of computers. The Artificial Intelligence industry is considered to be one of the top industries these days and is continually growing. This course is designed to introduce students to that concept. This will be a course where students will be designing and programming robots to carry out different functions. They will be using VEX equipment that uses a modified C language to program.

Physical Education Courses that Meet Graduation Requirements

Personal Fitness Development 9 - Grade(s): 9 (Semester course)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

CCHE

Students are taught about the lifelong benefits of exercise and will participate in a variety of warm-ups, physical activities, and locomotor skills. This course includes fitness testing in the areas of muscular strength, muscular endurance, power, speed, agility, balance, and flexibility. Skill development, participation, and teamwork will be emphasized through a variety of sports units and games. Lastly, students will sharpen their minds and spirits through character lessons and the following health topics...general wellness; diet/nutrition; hydration; basic hygiene; illnesses; drugs/alcohol/tobacco/supplementation; sleep; stress; and safety/injury prevention.

Health & Wellness Course – Grade(s): 9-12 (Semester course)

Prerequisite(s): none

Fee(s): course fee

Repeat for Credit: no

NCAA

CCHE

This course will include instruction on character development, physical activity, nutrition, social, mental and emotional health, substance abuse, CPR/First Aid training, and injury prevention. Students will receive CPR/First Aid certification. This course does not include human sexuality lessons in accordance with TCA's Core Values.

Weights & Conditioning - Grade(s): 9-12 (Semester course)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: Yes

Students learn weightlifting principles that are applicable to a wide variety of exercises and total body work-outs. Proper technique, biomechanics, and safety are reinforced. Conditioning activities supplement strength training to promote a healthy lifestyle. Students learn about major muscle groups (basic anatomy) and develop a general or sport-specific strength and conditioning plan to meet their personal goals. Students are tested on muscular strength, muscular endurance, power, speed, agility, balance, and flexibility. Health topics that are taught include stretching, character, general wellness, diet/nutrition, hydration, supplementation and performance enhancing drugs, rest/sleep, stress, and injury prevention.

Fitness for Life - Grade(s): 10-12 (Semester course)

Prerequisite(s): Personal Fitness Development 9 and Health and Wellness

Fee(s): none

Repeat for Credit: Yes

NCAA

CCHE

Fitness for Life will introduce students to a broader world of fitness and organized sports outside of High School, club, and College athletics. The goal of this course is to produce a life-long passion for fitness, health, and nutrition, while preparing students for life. Per club and scholastic athletics. Fitness for Life will include lessons on both physical and mental health issues. This course will build upon many of the physical health concepts taught in JH and 9th grade PE classes as well as many of the mental health topics learned in 9th grade Health and Wellness, while also introducing new and more advanced ideas. Our Core Values document states, “Throughout his or her life, the exemplary citizen seeks to produce fruitful work by caring for the physical needs of his or her body through doing the ‘musts’ in one’s life such as – good nutrition, regular exercise, and other healthy habits.” This course is designed to do just that, develop exemplary citizens through lifelong fitness habits. There will be time spent each week in the classroom, in the gym, and in the weight room.

General Electives

Critical Thinking - Grade(s): 10-12 (Semester course)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

CCHE

In Critical Thinking, students are taught how to use logic, deductive reasoning, proof by induction, perspective, and pattern recognition, through the analysis and solving of problems, puzzles (mathematical and logical), mathematical “magic tricks”, and games. The goal is to produce students whose minds are more adaptive and flexible so that “thinking outside of the box” or being more thoughtfully creative is the result. These students will be able to solve multi-step, complex problems more readily.

Digital Photography -Grade(s): 9-12 (Semester course) (Offered on a rotating basis)

Pre-requisite(s): none

Fee(s): Course fee applies.

Repeat for Credit: no

Digital photography will help students to become well rounded in the fundamentals of digital photography. The main areas of instruction will be camera modes and settings, principals of composition, lighting, photo-editing software, and careers. This course will be of special benefit to those students interested in yearbook, digital media, newspaper, and other current technological TCA electives.

Advanced Digital Photography -Grade(s): 10-12 (Semester course) (Offered on a rotating basis)

Pre-requisite(s): Digital Photography

Fee(s): Anticipated Fee of \$15

Repeat for Credit: yes

Advanced Digital Photography will reinforce and enhance skills learned in Digital Photography through challenging projects using advanced techniques. Specifically, students will spend more focused time working with the principles of photocomposition and lighting & flash as they relate to portraiture, sports, landscape, architectural, macro, HDR, nighttime, and fine art photography. Students will also study post-processing techniques specific to each type of photography using photo-editing software like Adobe Photoshop. Lastly, student will explore the business side of photography, as well as the creation of a professional portfolio. This course will be of special benefit to those students interested in yearbook, digital media, newspaper and other current technological TCA electives.

Introduction to Journalism - Grade(s): 9-12 (Semester course) (Offered on a rotating basis)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

NCAA

During Introduction to Journalism, students will learn all aspects of journalistic writing and production with emphasis on copy, editing and design. Students will practice interviewing techniques, write headlines and use the inverted pyramid format. Students will gain useful technical skills by learning to use Adobe InDesign software, word-processing and photo manipulation software, digital camera and scanner. Students will learn rules of layout and design, effective use of photography and caption writing. Students will also learn the business aspects of journalism: creating and managing a budget to balance production costs with income from ad sales. Students will be coached in conducting themselves professional in their interactions with outside businesses. Elements of both newspaper and yearbook will be taught. Students will also be exposed to other communications career opportunities in print, radio, television, publishing and business. Guest speakers will be incorporated into the curriculum.

Introduction to Yearbook - Grade(s): 9-12 (Semester course)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

CCHE

Introduction to Yearbook is a fall or spring semester course for students who wish to gain useful technical skills by learning to use Adobe InDesign software, word- processing and Adobe Photoshop, digital camera and scanner. Students will learn rules of print layout and design, effective use of photography and caption writing. Students will also learn the business aspects of yearbook: creating and managing a budget to balance book costs with income from book sales. Students will be coached in conducting themselves professionally in their interactions with students, staff, parents, and outside businesses. The course will be a practical exercise in creating a separate yearbook for TCA's junior high.

Sports Business - Grade(s): 10-12 (Semester course) (Offered on a rotating basis)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

Sports Business is a business course, not a PE elective, and will use the sports industry to explore major topics in business. Some of the topics will be budgeting, marketing and development, sports administration, and sports law. The course will be based on current events and will be a discussion (Socratic in nature) based course. This course will provide students interested in the sports industry with a view into the world of sports business.

Study Skills- Grade(s): 9-12 (Year course)

Prerequisite(s): Students on an Individualized Education Plan (IEP)

Fee(s): none

Repeat for Credit: yes

This purpose of this course is to meet the needs of students identified with an educational disability under The Individuals with Disabilities Education Act (IDEA) and received specialized educational services as outlined in their IEP. Students receive individualized supports to increase their ability to access meaningful instruction inside the general education classrooms and demonstrate content mastery at their individual level. Students work toward increased academic independence, success and learn how to advocate for their exceptional or unique learning needs.

Yearbook Production - Grade(s): 10-12 (Year course)

Prerequisite(s): Intro to Yearbook, Intro to Journalism, Digital Photography or instructor approval

Fee(s): none

Repeat for Credit: yes

CCHE

Yearbook class is responsible for the production of The Classical Academy High School Yearbook, The Torch. Students will create a yearbook, understanding its function as both a memory book and a historical record of the current school year. Students will identify and complete the necessary tasks to produce the yearbook, including: developing a concept, reporting and writing, photography design, production, and funding. Staff positions will be function-driven, with students specializing in positions as: designers, writers, photographers, or editors, business and sales managers. Yearbook deadlines are crucial and students must learn to work with others in a responsible, timely and cooperative way. Occasionally, students will be required to work outside regular class hours, especially in and around deadlines. Work may also be done before and after school and over lunch periods in the journalism room.

Senior Assistant – Grade(s): 12 (Semester course)

Prerequisite(s): Application

Fee(s): none

Repeat for Credit: no

Seniors will assist either an Academic Department or an Administrative Office within the TCA North Campus Community. Students may assist several teachers within a given Department by helping to prepare classrooms for activities/labs, tutoring, running errands, etc. Students will assist an Administrative office with general office duties, running errands, etc. Aides are expected to spend their time in support of the Department/Office in which they are assigned; it is not a study hall. This course is worth one elective credit and is Pass/Fail. Attendance is required. This course does not meet CCHE requirements for an academic elective.

Study Hall – Grade(s): 9-12 (Semester course)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: This course is not for credit.

This course is an intensively monitored study hall provides time for student to complete assignments, study for quizzes or tests, or complete projects. This course is Pass/Fail. Attendance is required. Only one study hall may be taken each semester. This course does not meet CCHE requirements for an academic elective.

Introduction to Philosophy - Grade(s): 10-12 (Semester course) (Offered on a rotating basis)

Prerequisite(s): 10th grade students only: World Religions

Fee(s): none

Repeat for Credit: no

CCHE

Philosophy will introduce students to nearly all the important figures in philosophy before 1800 and offer exposure to all the major branches of philosophy. Each figure will be studied in some depth so that ideas may be understood within the full context of belief systems. Semester one would cover Platonism, Aristotelianism, Epicureanism, Stoicism, and the theology of Augustine and Aquinas. It will treat their metaphysical, epistemological, moral, and political theories. The second semester covers Modern Philosophy from Descartes to Kant; it covers mostly their metaphysical and epistemological theories.

Historical Courses

The listing of historical courses is so that higher educational institutions may have an accurate definition of courses that show on TCA transcripts.

Historical English Courses

Advanced Reading Techniques for High School Level Content - Grade(s): 9-10

(Semester course)

Prerequisite(s): none

Advanced Reading (High School Content) is designed to equip students for the increased reading demands that they will encounter in high school. Specific goals are to improve students' Reading Rate, Recall skills (mnemonics, concept maps, etc.), Comprehension (to 90 percent or greater), and Vocabulary skills. This course is not meant for students who are reading below grade level as identified on various assessments. This course does not meet CCHE requirements for an academic elective.

Advanced Reading Techniques for College Level Content - Grade(s): 11-12

(Semester course)

Advanced Reading (College Content) is designed to equip students for the increased reading demands that they will encounter in college. Research studies indicate that most high school seniors are ill prepared for the significant increase in reading tasks expected during the first year of college. College reading assignments are usually three to four times longer than high school reading assignments, and they contain a wide variety of technical and highly specialized vocabulary. The increased demands of college-level reading are compounded by the potentially hectic schedule and change in living environment college freshmen face. Thus, reading requirements may appear overwhelming. Advanced Reading provides the opportunity for students to refine their reading skills. Specific goals are to improve students' Reading Rate, Recall skills (mnemonics, concept maps, etc.), Comprehension (to 90 percent or greater), and Vocabulary skills. This course is not meant for students who are reading below grade level as identified on various assessments. This course does not meet CCHE requirements for an academic elective.

AP English Language & Composition – Grade(s): 11 (Year course)

Prerequisite(s): Classics and Composition II or Honors Classics and Composition II; and AP Application.

Broadcast Journalism & TV Studio Production – Grade(s): 9-12 (Semester course)

Prerequisite(s): none

Fee(s): Course fee applies.

Repeat for Credit: yes

Broadcast Journalism & TV Studio Production is designed to teach students multimedia TV production. Students will understand principals of photography, video production, and studio

operations. Students will be directly involved with the production of daily announcements, Intranet (not Internet) production videos/photo shows, and video/photo show for hallway TVs.

Creative Writing: Prose - Grade(s): 10-12 (Semester course)

Prerequisite(s): none

Repeat for Credit: no

Creative Writing: Prose will teach students how to plan, organize and write a variety of literary forms including: drama, short story, one-act plays, and chapters for a novel. In addition to regularly scheduled assignments, the class will study the art of writing from the point of view of writers themselves as seen in the selection of short stories and authors in the class textbook "The Creative Writer's Toolbox" by Kara Lee Egizi. Students will also be expected to critique other students' work as well as make revisions based on suggestions.

Creative Writing: Poetry - Grade(s): 10-12 (Semester course)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

Creative Writing: Poetry is designed as an introduction to poetry writing, exploring students' interests and abilities in the various genres of poetry. The hope is that they will discover the pleasure of expressing themselves creatively in writing, and in examining the writing processes of the great writers of the past and present. This course will be one of not only writing, but also of reading and experiencing literature. Students will also learn techniques of editing as they critique writing of their own and of their peers in workshop fashion.

Literary Journal – Grade(s): 10-12 (Semester course)

Prerequisite(s): Teacher approval for 10th graders.

Literary Journal is designed as an introduction to creative writing, both prose and poetry writing, exploring students' interests and abilities in the various genres. The hope is that students will discover the pleasure of expressing themselves creatively in writing. Students will also learn techniques of editing as they critique writing of their own and of their colleagues in workshop fashion. The class will also be responsible for the creation and publication of a literary journal for TCA, incorporating their work and the work of other TCA faculty, staff and students.

One Book, One Semester – Grade(s): 10-12 (Semester course)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

In the One Book course, students choose one book to read, discuss and analyze. The class will review the available literary criticism of the book. Students will explore the chosen book in a "book club" format. Students are required to participate regularly in class. This course is for book lovers who love to discuss good literature. This course does not meet CCHE requirement for an academic elective.

Reading Enhancement (replaced by Advanced Reading courses above) - Grade(s):
10-12 (Semester)

This course does not meet CCHE requirements for an academic elective.

The Play's The Thing — Grade(s): 10-12 (Semester course)

Prerequisite(s): none

Repeat for Credit: no

The Play's The Thing course is designed as a survey of five classic plays, which will be read aloud in class. The goal is to experience and evaluate great theatre, discussing universal themes presented through drama. Students will write an essay following each play. Students will also complete one outside individual project, which involves reading and evaluating a play on their own. The class develops analytical thinking while supporting and developing a student's passion for theatre. It fosters an appreciation of the arts by experiencing the written and spoken word. This course does not meet CCHE requirement for an academic elective.

Historical Math Courses

Algebra IA - Grade(s): 9 (Year course)

Prerequisite(s): Math Department places students (based on past performance and possible need for intervention.)

Repeat for Credit: no

NCAA

CCHE

Algebra IA is the first semester of the Algebra I course (above), taught over the entire year. When paired with Algebra IB (below), the two courses are equivalent to Algebra I. It is meant for students who struggled with math in the past or who may be behind in their math coursework. It is strongly recommended that students taking Algebra IA, also sign up for the Math Lab course.

Historical Science Courses

AP Physics B - Grade(s): 10-12 (Year course)

Last Offered: 2013-14 school year. This course was replaced by AP Physics 1 and AP Physics 2

Prerequisite(s): AP Application. Algebra II is required, with at least a B- grade for both semesters.

AP Physics B is a non-calculus based physics course that covers a very wide range of topics, including: mechanics, thermodynamics, fluid dynamics, waves and optics, electromagnetism, and atomic and nuclear physics. Students will be expected to complete laboratory experiments, lab reports, and independent readings to keep up with the course. At the end of the course, all students will be required to take the AP Physics B exam for possible college credit

Historical Social Science Course

AP American Government - Grade 12 (Year Course)

Last Offered: 2013-14 school year. This course had its name changed to AP Government and Politics: United States.

Prerequisite(s): U.S. History/Geography, Honors American Studies - History or AP U.S. History/Geography and AP Application.

AP American Government will serve as a substitute for the Civics course for students that would like a greater challenge and would like the chance to earn college credit. The course will teach students the history and values of representative government, the function and application of the Constitution, and the function of state, local and federal governments. Students will analyze classic political questions, Supreme Court decisions, and the process of governing. Students will also consider the unique approach of American government and the motivations of those who participate in government at all levels.

The American Civil War - Grade(s): 10-12 (Semester course)

Prerequisite(s): none

Repeat for Credit: no

CCHE

Many historians would argue that the American Civil War was the single most important event in United States history. No one can deny that it was at least one of the most pivotal episodes in our history, one whose causes stretch back to the earliest days of the colonial period and whose legacy we still struggle with to this day. Shelby Foote, author of the monumental work *The Civil War: A Narrative*, called the Civil War “the crossroads of our being” as a nation. Understanding that “crossroads” through the study of the social, political, economic, intellectual, and military implications of the costliest conflict in lives lost in American history will provide students a greater grasp of what it means to be an American and a citizen of this great country.

Great Americans - Grade(s): 10-12 (Semester course)

Prerequisite(s): none

Repeat for Credit: no

The Great Americans course is designed to expose students to prominent Americans throughout history that have positively impacted society in a variety of fields. Students will study the lives of significant men and women through the use of autobiography, biography, documentaries, and primary source materials to better understand the character traits that made them great. Examples of possible individuals include: Jonathan Edwards, Abraham Lincoln, Mark Twain, Martin Luther King, Jr., Eleanor Roosevelt, Theodore Roosevelt, Dwight D. Eisenhower, and Helen Keller.

Historical PE Course

Aerobics and Wellness - Grade(s): 9-12 (Semester course)

Prerequisite(s): Personal Fitness 9

Fee(s): none

Repeat for Credit: yes

This class introduces students to a variety of cardiovascular and strength training activities and health tips with the goal of developing lifelong, beneficial, and enjoyable habits. Additionally, students work toward accomplishing personal goals through knowledge, encouragement, and accountability. Some primary wellness topics include nutrition, hydration, healthy bone density, and the effects of artificial sweeteners and drinking soda. This course includes kick-box aerobics, a self-defense session, salsa and boot camp-style workouts, Core Flow and Pilates (flexibility, balance, and strength), and Tabata protocols (endurance). Lastly, students acquire knowledge of general anatomy, biomechanics, and injury prevention

Weights and Conditioning for Athletes - Grade: 10-12 (Semester course)

Pre-requisite(s): Be on a TCA sports team and teacher approval.

In Weights and Conditioning for Student Athletes, students receive highly customized in-season and

off-season workouts. Instruction also includes information on proper nutrition and injury prevention. Supplemental strength, speed, and conditioning activities are integral to the course. This course does not meet CCHE requirements for an academic elective.

Historical Fine Arts Course

AP Studio Art – Grade(s): 12 (Year course)

Pre-requisite(s): AP Application. See AP Courses Explanation at the beginning of the course catalog.

Repeat for Credit: no

CCHE

AP Studio Art is recommended only for very serious students who are interested in the practical experience of art and intend to pursue art in college. This course has no written examination; students submit a portfolio of twenty to twenty-four works of art for evaluation at the end of the school year. AP Studio Art candidates should begin preparation for the course well in advance of their senior year, if they hope to complete successfully the course work. Work from previous years may be drawn upon when assembling the mandatory portfolio. Students enrolled in this course will choose one of the following focus areas: Drawing, 2-D Design, and 3-D Design. The students will then work within this area fabricating a portfolio. The portfolios are composed of three sections:

- Breadth, where in the student is asked to display an understanding of visual principles and material techniques through a wide variety of media;
- Quality, where in students show case their mastery of technique and theory and;
- Concentration, where in students develop a thesis and create multiple works expounding on a visual idea.

Historical Foreign Language Courses

AP French - Grade(s): 12 (Year course)

Prerequisites(s): AP Application and French III. See AP Courses Explanation at the beginning of the course catalog.

Repeat for Credit: no

NCAA

CCHE

The goal of AP French is for students to express themselves with reasonable fluency and accuracy in both written and spoken French. The content reflects the interests of the students and teacher including the arts, current events, literature, sports, etc. Materials will include audio and video recordings, film, newspapers and magazines in addition to a basic grammar text/workbook. At the end of the course, all students will be required to take the AP French exam for possible college credit.

AP Spanish - Grade(s): 12 (Year course)

Prerequisite(s): AP Application and completion of Spanish III or Pre-AP Spanish III. See AP Courses Explanation at the beginning of the course catalog. Students should have earned a

minimum grade of a “B” in their Spanish III course.

Repeat for Credit: no

NCAA

CCHE

The AP Spanish Language course is designed to give an opportunity for students to be able to interact with Spanish-speaking cultures so that they can confidently function in Spanish in a variety of settings. The course is meant to be comparable to third year (fifth or sixth semester) college and university course that focuses on speaking and writing in the target language at an advanced level. The AP Spanish course is designed for the advanced student who has a good understanding of the Spanish language and who has the desire and motivation to increase their spoken language, writing and reading skills. The central focus will be Spanish and/or Latin American literature and culture. The course will strictly be taught in Spanish.

Historical Computer Courses

Digital Media I - Grade(s): 10-12 (Year course) (Offered on a rotating basis)

Prerequisite(s): none

Fee(s): Course fee applies

Repeat for Credit: no

CCHE

Digital Media is the study of collecting, creating, processing and producing various types of digital content. Students in this course will learn the principles and techniques for producing images, video and audio content. Digital Media is more like an art class than an academic class. Students will be creating content, rather than responding to a teacher’s lecture and will be evaluated on productivity and productions rather than on tests and quizzes. Students will be asked to contribute to required class videos by going to sporting events or activities and taking photos/videos.

Digital Media II - Grade(s): 11-12 (Year course) (Offered on a rotating basis)

Pre-requisite(s): Digital Media I.

Fee(s): Course fee applies

Repeat for Credit: no

CCHE

In Digital Media II students will refine the skills that they learned in Digital Media I. Most of the time will be spent on the production of professional, high quality DVD’s for public showings or private use. Topics will include: Veteran’s Day, Senior Breakfast, Graduation, and various assemblies.

Language Programming – Grade (s): 9-12 (Semester course) (Offered on a rotating basis)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

Language Programming uses two different languages: Visual C++ and Visual Basic. Students will learn the fundamentals of programming by using console applications. They will become familiar

with the coding process and structure it takes to make a program. They will be learning to use procedure breakdown, external files, formatting, and much more. This is an important skill to have for any future work; and for the field of computer science.

Visual Programming - Grade(s): 9-12 (Semester course) (Offered on a rotating basis)

Prerequisite(s): Language Programming is recommended.

Fee(s): none

Repeat for Credit: no

CCHE

Visual Programming uses two different languages: Visual C++ and Visual Basic. This is higher-level programming. Some projects would require teamwork. Students will be designing some business-based applications and some games that are windows-based. They will learn to develop Forms-based programs, including external files and databases as a source for developing higher end programs.

Web Programming - Grade(s): 9-12 (Semester course) (Offered on a rotating basis)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

CCHE

The internet is a powerful tool these days and has become an important resource for most businesses. This class will teach the concerns about the internet and how to keep it a safe environment. Students will learn the fundamentals of programming on the web to create attractive sites. They will learn the design process, and how to implement this to their website. They will be using Microsoft Notepad, SharePoint Designer, Visual Web Developer; using HTML, DHTML, CSS and some Java Script. Students will learn how to create and manage entire websites. The goal for this class is for the students to be able to program with modern tools and keep it managed on a daily basis.

AP Latin - Grade(s): 12 (Year course)

Prerequisite(s): AP Application and Latin III. See AP Courses Explanation at the beginning of the course catalog.

Repeat for Credit: no

NCAA

CCHE

In AP Latin, students will read a substantial amount from one or more Roman authors in preparation for the AP Latin exam given in the spring. Instruction will emphasize: improved reading speed and comprehension, advanced mastery of Latin grammar and vocabulary, basic literary analysis, and a familiarity with the conventions of classical Latin poetry. Daily homework will consist of significant reading assignments to be translated and discussed the following day in class. Short quizzes on these readings or upon general points of grammar will be given as needed. Periodic exams will call for extensive translation, grammatical analysis, and literary essays.

Introduction to Ancient Greek - Grade: 11-12 (Semester course)

Pre-requisite(s): Students must have completed or be in the final year of completing their graduation credits in Foreign Language. Students will learn the basics of ancient Greek as they read passages from New Testament Greek. The featured ancient passages were selected from the New Testament for language acquisition and not theological content.

Introduction to Italian - Grade: 11-12 (Semester course)

Pre-requisite(s): Students must have completed or be in the final year of completing their graduation credits in Foreign Language.

Students will discover the basics of Italian, primarily for speaking and listening, but also for reading. The links from Latin will be emphasized. Skills acquired will prepare students for travel in Italy as well as for interacting with other Italian speakers.

Introduction to Mandarin Chinese - Grade: 9-12 (Year course)

Students will begin learning to speak the Modern Mandarin Chinese language. Reading ability will require the students to learn both the PinYin system of Romanized Chinese as well as the strokes and radical system of Simplified Chinese Characters as used in the Peoples Republic of China and Singapore. The writing component will train students to produce Written Chinese language, both in PinYin and in Simplified Characters. The class will have a consistent exposure to Chinese Culture. (This course is an elective and currently does not meet the language requirements for graduation.)

Historical General Elective Courses

Computer Aided Design - Grade 9-12 (Semester course)

Last Offered: 2012-13 school year

Computer Aided Design is designed to introduce the student to the concepts of drafting and design on the computer. This class begins with the introduction to drafting techniques. Students will draft objects utilizing drafting techniques. Accuracy, method, and completeness will be stressed utilizing CAD software. This course does not meet CCHE requirement for an academic elective.

Introduction to Engineering Design (IED) -- Grade 9-12 (Year course)

Last Offered: 2012-13 school year

Pre-requisite(s): none

Introduction to Engineering Design is a high school-level course that is appropriate for students who are interested in design and engineering. The major focus of the IED course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. (Beginning with the 2012-2013 school year, this course does meet graduation requirements as a science course; the prior year's course was an elective only.)

Air Force Junior Reserve Officer Training Corps (AFJROTC) (Year course)

Prerequisite: Student has participated in the AFJROTC program during the 2013-14 school year or before. (This course is gradually being phased out of the TCA curriculum.)

Last Offered: 2015-16 School Year

Air Academy High School offers a four-year Air Force Junior ROTC curriculum. Each year offers a unique academic focus while still emphasizing leadership, character development, and good citizenship. See the Air Academy web site for course descriptions.

Newspaper - Grade(s): 10-12. (Year course)

Prerequisite(s): Application with priority given to students who have completed Introduction to Journalism.

Repeat for Credit: no

CCHE

Newspaper class is responsible for the production of The Classical Academy High School Newspaper, The Titanium. Students will write news stories, features and columns, and report student and school activities. Up to nine issues of The Titanium are planned each school year. Students will be responsible for editing news stories, creating newspaper layout and design, as well as selling advertising. Staff positions will be function-driven with students specializing in positions as: designers, writers, photographers, or editors, business and sales managers. Publication deadlines are crucial, and students must learn to work with others in a responsible, timely and cooperative way. Occasionally, students will be required to work outside regular class hours, especially in and around deadlines. Work may also be done before and after school and over lunch periods in the journalism room.

Principles of Engineering (POE) -- Grade 10-12 (Year course)

Last Offered: 2012-13 school year

Prerequisite(s): Intro to Engineering Design

NCAA

Principles of Engineering is a high school-level survey course of engineering. The course exposes students to some of the major concepts that they will encounter in a postsecondary engineering course of study. Students have an opportunity to investigate engineering and high tech careers. Students will employ engineering and scientific concepts in the solution of engineering design problems. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students will also learn how to document their work

and communicate their solutions to their peers and members of the professional community. The course of study includes: Mechanisms, Energy Sources, Energy Applications, Machine Control, Fluid Power, Statics, Material Properties, Material Testing, Statistics, Kinematics. (Beginning with the 2012-2013 school year, this course does meet graduation requirements as a science course.)

Senior Aide - Grade: 12 (Semester course)

Last Offered: 2013-14 school year

Pre-requisite(s): none

Senior aides will serve the TCA community in some aspect for one class period each day. Possible areas of service include the various offices, the library, and teachers. Specific assignments are made by the scheduler based on the needs of the school. This course will receive a Pass/Fail grade and earns 1 credit for each semester. This course does not meet CCHE requirement for an academic elective.

Teacher Assistant - Grade: 11-12 (Semester course)

Last Offered: 2013-14 school year

Pre-requisite(s): none

This course is a service learning opportunity allowing a student to provide practical classroom support for a north campus teacher while at the same time learning about the many aspects of the teaching profession. Completion of the Teacher Assistant application, each year, is required. Final approval will be at the discretion of the administration.

Goals and expectations of the course may include, but are not limited to:

- 1) Helping individual students during board work, homework time, small group time, and labs
- 2) Presenting lessons on a limited basis depending on student ability, knowledge and willingness
- 3) Grading as the teacher deems appropriate
- 4) Setting up of bulletin boards, visuals, labs, manipulatives, and/or handouts.

TA time must be spent in support of the teacher; it is not to be used as study hall. This course does not meet CCHE requirement for an academic elective.

Introduction to Economics - Grades: 9-12 (Semester course) (Offered on a rotating basis)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

This course is an introduction to basic economic principles. Economics concerns the wealth of nations and its origins in production and exchange, its allocation among competing uses, its distribution among individuals and its accumulation or decline. Economics seeks to identify and study both the common features and the differences in institutions by which societies throughout the world, today and in the past, have organized economic life. Basic principles of both micro and macroeconomics are covered along with a survey of various economic theories, methodologies, as well as significant historical context. This course does not meet CCHE requirement for an academic elective

Introduction to Accounting - Grades: 9-12 (Semester course) (Offered on a rotating basis)

Prerequisite(s): none

Fee(s): none

Repeat for Credit: no

This course is primarily designed to help students gain an overview of the different areas of Financial Accounting and to prepare them for post-secondary studies in Business Administration. The students are introduced to the concept of double entry bookkeeping, the general ledger, the trial balance, the profit and loss statement and the balance sheet. Although Financial accounting will be the primary focus of this course, Managerial Accounting, which emphasizes assigning costs internally and computing profitability and breakeven for organizational operations will be introduced. Also covered are the primary functions available in Microsoft Excel. This course does not meet CCHE requirements for an academic elective.