

2015-2016

Dear CHS Students and Parents,

This “Program of Studies” has been developed to assist you in planning an appropriate high school program. Each of our departments has provided you with course descriptions and information designed to guide you in making appropriate choices.

The academic program of Clayton High School is our major focus. Our co-curricular program is large and varied so that students may experience a well-rounded education during the high school years. It takes full participation in both programs to build a comprehensive high school experience. We encourage students to become involved both in and out of the classroom.

Questions may arise as you review this booklet, and we are anxious to help you understand our program. Our counseling staff and department leaders are available to address your concerns. We hold a special curriculum evening for this purpose. In addition, a phone call is always welcomed.

We extend our best wishes to you for a wonderful educational experience at Clayton High School.

Sincerely,

A handwritten signature in cursive script that reads "Dan Gutchewsky".

Dr. Dan Gutchewsky
Principal

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CLAYTON HIGH SCHOOL MISSION

Clayton High School's mission is to provide an exemplary academic and extracurricular program that will guide students in the development of the character, knowledge, skills, and intellectual curiosity needed to contribute to the world around them.

GUIDING PRINCIPLES

In keeping with the mission of our school, Clayton High School has identified the following principles that guide our work and influence our decisions.

- **We believe**
that the central focus of our school is learning.
- **We believe**
that our program must be comprehensive and challenging in order to meet the needs of all our students.
- **We believe**
that involvement in the extracurricular program contributes to the total development of our students.
- **We believe**
our school community should promote health, character, and compassion.
- **We believe**
social, ethnic, and cultural diversity enriches our school community.
- **We believe**
that our ever-changing world demands that learning be a lifelong process.

GRADUATION REQUIREMENTS

Minimum requirements for a Clayton High School diploma are determined by the State of Missouri and the Clayton School District Board of Education. Preparation for specific personal, career, or college interests requires careful consideration of the individual's personal plan of study. The counseling staff is prepared to assist each student with this planning.

To earn a diploma from Clayton High School, students must earn 24 units of credit.

	4	units in English (3 units of conferenced English, including English I & II)
*	3	units in social studies (including 1/2 unit of American Government and 1 unit of U.S. History)
	3	units in science
	3	units in math
	1	unit in fine arts
	1	unit in practical arts (including 1/2 unit of personal finance or financial management)
	1/2	unit of health
**	1	unit of physical education
	7 1/2	units of additional course work

- * Examinations on the United States and Missouri Constitutions must be passed.
- ** Physical Education is completed at the rate of 1/4 unit per semester.

GRADUATION WITH HONORS

Students who achieve a final cumulative grade point average of 3.75 or higher will graduate with "High Honors"; students with a grade point average of 3.50 - 3.74 will graduate with "Honors." Honors designations are noted on both the diplomas and graduation programs.

GRADING SYSTEM

Clayton High School uses a four-point grading system. Grades of A, B, C, D, P, and CR are passing grades. All classes are included in grade point averages unless the student has opted to take the class Credit/No Credit or Audit and has filed all appropriate paperwork. Grades of F, W, NC or AU award no credit. A student who receives an F in a required subject must repeat and pass that course to fulfill graduation requirements. The P grade is assigned when the teacher believes that a student has put forth a strong effort but that the subject is too advanced for the student's particular stage of development.

If a student chooses to re-take a course at Clayton High School in which the student has previously earned a D+ or lower, the new grade is calculated into the student's GPA. The original grade is removed from the student's transcript and is not calculated into the student's GPA. If a student wishes to re-take a course in which the student has earned a C- or better, special permission must be granted by the principal to replace the C- or better with a new grade. It is the student's responsibility to complete the appropriate form to initiate the grade change.

When a student changes from one course to another, the entering grade will be determined jointly by the department chair, outgoing and incoming teacher, and an administrator.

If a course is dropped **DURING** the first quarter of the semester (1st or 3rd quarter), no record of the student's enrollment is made. However, if the course is dropped **AFTER** the first quarter of the semester (2nd or 4th quarter), it is recorded on the permanent record as an F. In special circumstances, the W (withdrawal) grade will be given to students who withdraw from a class **AFTER** the first quarter of the semester. The counselor, teacher and an administrator will determine when a W grade is appropriate.

Clayton High School will award credit to students for courses completed at an accredited high school. Course work completed through non-accredited high schools may appear on the permanent transcript but will appear as NC (no credit).

CLASSIFICATIONS

Students at Clayton High School are classified according to the number of credits they have accumulated. The required credits for classification are as follows:

10th Grade	6	Credits
11th Grade	12	Credits
12th Grade	18	Credits
Graduation	24	Credits

ELIGIBILITY

To compete in athletic activities, students must meet Academic Eligibility Standards established by the Missouri State High School Activities Association. In order to compete during a semester, a student must have earned a minimum of 3.0 units of credit the preceding semester, and be currently enrolled in and regularly attending courses that offer a minimum of 3.0 units of credit.

Clayton High School expects all students participating in extracurricular activities to exhibit good attendance patterns and good overall citizenship.

CREDIT/NO CREDIT

Students may elect up to one-half unit of course work each semester on a credit/no credit basis. This option removes the selected course from the grade-average computation. In order to elect this option, the minimum graduation requirement must be met in that subject area. For example, after the first three high school courses in science have been completed (three years required), one additional course could be graded credit/no credit. If the student does passing work, a grade of CR is recorded, and credit is granted. In the event of failure, the grade is recorded as NC, and no credit is awarded. In neither case is the student's grade average affected. Students who have previously taken a course on a Credit/No Credit basis may re-take the course for a grade. The form that must be completed for this option to be implemented is available in the Counseling Office. The form must be filed during the first quarter of the semester.

AUDIT

Students may elect up to one unit of course work each year (1/2 unit per semester) on an Audit basis if minimum Clayton High School graduation requirements in the specific subject area have been met. Grades in courses where this option is exercised are recorded as Audit (AU). Audit courses are not counted in the student's grade-point average. Student requests for the Audit option must be submitted before the end of the first quarter for the first semester or whole year subject, and before the end of the third quarter for a second semester subject. After the submission deadline, no change in grading procedure will be considered.

RECOMMENDED COURSES OF STUDY

Although Clayton High School has comprehensive requirements for graduation, simply meeting those requirements will not produce the most competitive transcript for college admission. As the competitive nature of admission increases at most schools, the colleges expect students to meet rigorous curricular standards for admission. The program of study below is strongly recommended for the college-bound student:

- 4 years of English
- 4 years of Mathematics
- 4 years of Science
- 4 years of Social Studies
- 4 years of World Languages

Any deviation from this curriculum should be considered carefully. For example, if you elect to finish world language study after only three years, you should select a course offering from another discipline to complete advanced work in an area of specific interest.

COURSE OFFERINGS

Course lists are arranged departmentally. Each department has listed all course offerings.

Each section is prefaced by a departmental introduction that outlines graduation requirements and describes the overall four-year program in that department. A suggested sequence of courses is given for each department. Specific course information includes course title, the grade level(s) for which the course is appropriate, amount of credit, semester(s) when a course is offered (1=first semester, 2=second semester), course descriptions, course requirements, and prerequisites, if required.

Essential Questions and Enduring Understandings:

A Brief Explanation

The faculty throughout the School District of Clayton is continuing to engage in refining the curriculum and in deepening our understanding of our work. As part of this work, each discipline at CHS is developing what Grant Wiggins in Understanding by Design calls **essential questions or enduring understandings**. Each department develops essential questions or enduring understandings, depending upon which approach they feel best fits their discipline.

We believe that the questions or understandings provide insight into the fundamental issues at the core of each of the disciplines. As a result, each discipline's course offerings are prefaced by a list of either essential questions or enduring understandings.

Below is a brief explanation of the nature of essential questions and enduring understandings.

In Understanding by Design, Wiggins states that **essential questions** have the following qualities:

- **Go to the heart of the discipline.** Essential questions can be found in the most historically important and controversial problems and topics in various fields of study: Is a “good read” a great book? Was arithmetic an invention or a discovery? Is history always biased? Do men naturally differ from women?
- **Recur naturally throughout one's learning and in the history of the field.** The same important questions are asked and re-asked as an outgrowth of the work. Our answers may become increasingly sophisticated, and our framing of the question may reflect a new nuance, but we return again and again to such questions.
- **Raise other important questions.** They invariably open up a subject, its complexities, and its puzzles; they suggest fruitful research rather than lead to premature closure or unambiguous answers.

In Understanding by Design, Wiggins describes **enduring understandings** in the following way:

- **Principles, laws, theories, or concepts** that are likely to have meaning for students if they appear to be sensible or plausible (not out of the blue or arbitrary pronouncements). In some sense, the students can verify, induce, or justify these ideas through inquiry and construction.
- **Counterintuitive, nuanced, subtle or otherwise easily misunderstood ideas**, such as gravity, evolution, imaginary numbers, irony, texts, formulas, theories, and concepts.
- **Conceptual or strategic element of any skill** (e.g. persuasion in writing or “creating space” in soccer): the clarification of a means to ends, and insight into strategy, leading to greater purposefulness and less mindless use of techniques. Such mindfulness can only come about by active reflection upon and analysis of performance (what works, what doesn’t, and why).

ENGLISH

Students in CHS English classes value the social nature and power of language. Classes build a reading and writing community where students share meaning, influence others' ideas, and create cultural connections with our shared literary heritage. CHS students learn that language is a tool for gathering information and a way to construct and disseminate knowledge, create beauty, and inspire others. Students learn to recognize and use the structures and conventions of language as well as learn to struggle with ambiguity; through such struggle, thoughtful readers expand their personal perspectives and work to understand the unfamiliar. CHS English students value language as a tool for reflection and exploration of personal and intellectual concerns, and in doing so, become critical readers, writers and thinkers.

The department offers conferenced courses that require writing, conferencing, and revising five compositions per semester. A typical conference consists of a twenty-minute meeting between the student and teacher outside of classes. During this required conference, the student and teacher discuss writing one-on-one. The conferenced English program provides students with differentiated instruction that builds on a student's individual strengths while targeting areas for growth and improvement.

The graduation requirement in English is four units; three of these units must be conferenced courses. College Prep English I and II are required courses, while the third and fourth units may be chosen from English electives. The department strongly urges students to take American Literature junior year so that they graduate with an awareness of the national literature. Honors/AP placement is determined by the English Department.

Essential Questions

In becoming critical readers, writers and thinkers, English students explore many “big questions.” Some questions are particular to a work of literature or a particular time period. Some questions pertain to a particular type of writing or way of thinking. Other questions unify all of the work that we do. Among these questions are the following:

- **What is the value of literature?**
- **How does literature help us interact with the world?**
- **How does one judge the value of a literary work?**
- **What is the best way to express a complex idea?**
- **What are the elements of effective communication?**
- **How does literature capture the zeitgeist of its era?**
- **How do reader expectations affect appreciation?**
- **How does this story challenge a widely-held belief?**
- **What qualities define a writer's distinctive voice?**
- **How do the first American writers address basic philosophical questions?**

ENGLISH OFFERINGS

GRADE 9

College Prep English I*

Honors English I*
Academic Reading I***
Newspaper Writing**
Forensics**
EL English***
EL Reading***
English I***

GRADE 11

American Literature

Honors American Literature
Great Works of British Literature (XX)
Shakespeare
Contemporary World Literature
Advanced Composition I and II
Mass Media
Genres in Writing & Literature
Film in American Society
Newspaper Writing**
Forensics**
Academic Reading I & II***
Topics & Themes in Reading & Writing
EL English***
EL Reading***
College Prep English I/II-Credit Recovery
English III***

GRADE 10

College Prep English II*

Honors English II*
Academic Reading I & II***
Newspaper Writing**
Forensics**
EL English***
EL Reading***
College Prep English I/II-Credit Recovery
English II***

GRADE 12

AP English Literature
AP English Language and Composition
American Literature
Great Works of British Literature (XX)
Shakespeare
Contemporary World Literature
Advanced Composition I and II
Mass Media
Genres in Writing & Literature
Film in American Society
Newspaper Writing**
Forensics**
Academic Reading I & II***
EL English***
EL Reading***
College Prep English I/II-Credit Recovery
English IV***

* One of these must be taken

** Non-Conferenced Courses

*** By teacher recommendation only

(XX) Not offered 2015-2016

Bold = The typical choice for that grade level

CONFERENCED COURSES

REQUIRED COURSES: College-Prep English I and II

HONORS ENGLISH I

9th Grade

Credit – 1 English credit

Full Year

Prerequisite: English Department approval based on the score of a placement test and other criteria. The teacher of a student whose semester grade falls below a B- will carefully consider the best placement for the student the following year.

Designed for the ninth grader who possesses both a strong ability and great interest in the study of English, Honors English I provides a course of study that teaches students to think deeply and carefully through reading, writing, speaking, and listening. Independent readers in Honors English I study these major works: Shakespeare's *A Midsummer Night's Dream* and *Romeo and Juliet*, Sophocles' *Oedipus the King* and *Antigone*, Homer's *Odyssey*, William Golding's *Lord of the Flies*, and Malcolm Gladwell's *The Tipping Point*. Students also read other plays, essays, poetry, and novels, often independently. Composition assignments range from literary analyses to creative writing, with an emphasis on the former; ten conferenced and revised compositions are required. Students design and deliver at least two oral presentations, including a persuasive speech. ***Students complete a reading and study assignment the summer before Honors English I.***

COLLEGE-PREP ENGLISH I

9th Grade

Credit - 1 English credit

Full Year

This required course for ninth graders is designed to encourage students to think deeply and critically, broaden students' reading experience, develop composition and grammar skills, and improve oral communication skills. Students will be introduced to narrative, persuasive, analytical, and creative writing structures and will practice these skills though at least ten conferenced assignments. Students will design and deliver a persuasive speech as part of their study of the persuasive writing. Major works include Homer's *Odyssey*, William Golding's *Lord of the Flies*, William Shakespeare's *Romeo and Juliet*, and Malcolm Gladwell's *The Tipping Point*. Core literature is supplemented through other literature, possibly including Lorraine Hansberry's *A Raisin in the Sun*, Yan Martel's *Life of Pi*, and classic short stories, poems and essays. This course is designed to help move students toward independent reading of complex texts and thoughtful, purposeful writing.

ENGLISH I

9th grade

Credit – 1 English credit

Full Year

Prerequisite: By teacher recommendation only

Because the English Department believes that in many cases the best way to group students for instruction is heterogeneously, some students enrolled in College-Prep English I will require adapted and/or modified curricula to meet their developmental needs in literacy. These students will have individualized goals and will receive instruction and feedback based on their needs while staying in the College-Prep English classroom.

English I may be used as a designation for students who require modification in content, standards, and/or grading in the College-Prep English I course. Students enrolled in English I will be introduced to the same course content as

those students in the college prep curriculum. Texts and written assignments will follow the same thematic and skill content, but will be adjusted for developmental level.

HONORS ENGLISH II

10th Grade
Credit - 1 English credit
Full Year

Prerequisite: English Department approval based on placement criteria. The teacher of a student whose semester grade falls below a B- will carefully consider the best placement for the student the following year.

Designed for the academically ambitious sophomore who has demonstrated a strong interest in and commitment to the study of English, this course emphasizes literature, vocabulary, writing, speaking, and listening. Students are expected to read at a mature level, simultaneously analyzing both content and form, and to write with clarity, precision, and sophistication about both literature and personal experiences. The recognition and importance of biblical allusions is a unifying thread between the semesters. Major works include *Black Boy, 1984, The Catcher in the Rye*, nonfiction essays, *The Bible as/in Literature*, a variety of poetry and drama, and at least one Shakespearean play. Other works may include the memoir *Night*, Aristotle's *Poetics* and modern novels such as *A Thousand Acres* or *The Things They Carried*. Students are required to complete an independent reading project each quarter. In conjunction with the study of literature, students are required to give at least one formal oral presentation. Students are required to write, conference, and revise a minimum of five compositions each semester. ***Students complete a reading and writing assignment the summer before Honors English II.***

COLLEGE-PREP ENGLISH II

10th Grade
Credit – 1 English credit
Full Year

This literature and composition course is designed to expand those skills learned at the ninth-grade level. The writing genres include the following: literary analysis, the personal narrative, creative writing, and comparison-contrast. Students are expected to make effective use of thesis statements, topic sentences, introductions, transitions, and conclusions. Major works include *The Bible as/in Literature*, a Shakespearean play (*Macbeth* and/or *Othello*), *The Catcher in the Rye, 1984*, and the memoir, *Black Boy*. Additional literature may include *Night, The Things They Carried, Things Fall Apart, Inherit the Wind, and Persepolis*. Students work on formal and informal presentations throughout the year. Other elements of study include grammar, short stories, nonfiction, and poetry. Each semester, students are required to write, conference, and revise five compositions and complete an independent reading assignment with related assessment.

ENGLISH II

10th grade
Credit – 1 English credit
Full Year

Prerequisite: By teacher recommendation only

Because the English Department believes that in many cases the best way to group students for instruction is heterogeneously, some students enrolled in College-Prep English II will require adapted and/or modified curricula to meet their developmental needs in literacy. These students will have individualized goals and will receive instruction and feedback based on their needs while staying in the College-Prep English classroom.

English II may be used as a designation for students who require modification in content, standards, and/or grading in the College-Prep English II course. Students enrolled in English II will be introduced to the same course content as those students in the college prep curriculum. Texts and written assignments will follow the same thematic and skill content but will be adjusted for developmental level.

CONFERENCED ELECTIVES

ELECTIVE COURSES: Students must complete four semesters of elective English courses. The department urges students to take American Literature, ideally in 11th grade. To assist in placement, students choosing semester-long electives, as opposed to the full-year electives, will be asked to choose four courses in order of preference. Every effort will be made to place the students in their preferred course(s).

HONORS AMERICAN LITERATURE

11th Grade
Credit - 1 English credit
Full Year

Prerequisite: English Department approval based on placement criteria. The teacher of a student whose semester grade falls below a B- will carefully consider the best placement for the student the following year.

In this course, students do intensive and extensive reading of classic American literature in the context of American culture, moving chronologically from the pre-revolutionary era to the end of the 19th century and then up to the literature of the late 20th century. Students also read literature thematically, examining it in relation to ideas such as romanticism and transcendentalism, especially in the first semester; later, they consider the influence of more modern “isms,” including realism, naturalism, and existentialism, followed by current theories, such as modernism and postmodernism. All such theoretical bases are tested against essential questions such as what is a masterpiece and what is a classic and why, and these theories are considered in relation to ongoing American issues, such as race relations, equality between the sexes, social class distinctions, and whether the pursuit of life, liberty and happiness is a reality or myth. Readings include works by Jefferson, Franklin, Hawthorne, Poe, Melville, Emerson, Thoreau, Dickinson, Whitman, Hemingway, and others; complete works may include *Narrative of the Life of Frederick Douglass*, *The Scarlet Letter*, *Adventures of Huckleberry Finn*, *The Great Gatsby*, *The Grapes of Wrath*, *Death of a Salesman*, and *The Woman Warrior*. Students do an intensive research project and class presentation based on the works of any American author of critical merit. Students are also required to write, conference, and revise a minimum of five compositions each semester; one such assignment each semester is usually other than an expository essay. *Students complete a reading and writing assignment the summer before Honors American Literature.*

AMERICAN LITERATURE

11th - 12th Grade (11th recommended)
Credit - 1 English credit
Full Year

This college-preparatory course begins with the belief that students must become acquainted with the literature and culture of America. Students explore a variety of genres in order to become exposed to the major writers, periods, and themes of American literature. Of especial importance is seating the works of literature in their historical time periods, reinforcing the relationship between works of art and the cultural milieu that produces them. Thus, students not only read major works such as *Narrative of the Life of Frederick Douglass*, *Adventures of Huckleberry Finn*, the poetry of Walt Whitman and Emily Dickinson, *Death of a Salesman* or *The Crucible*, *The Great Gatsby*, *Song of Solomon* or *Beloved*, and excerpts from the works of Ralph Waldo Emerson and Henry David Thoreau, but also they appreciate the events and cultural practices that inspire and provoke those works. Major works are supplemented by varying choices, such as *The Scarlet Letter*, *The Awakening*, *Their Eyes Were Watching God*, *The Grapes of Wrath*, *The Tortilla Curtain*, and other selections. Students are required to write, conference, and revise a minimum of five compositions each semester.

TOPICS AND THEMES IN AMERICAN LITERATURE

11th Grade

Credit - 1 English credit

Full Year

Prerequisite: Recommendation by the CHS Reading Specialist and College-Prep English II teacher. This is a course for juniors who require intensive and extensive one-on-one attention in order to further hone their reading and writing skills while focusing on core works from American literature.

This year-long course not only focuses on the fundamentals of reading and writing in order to prepare juniors for success in senior-level elective English courses, but also offers concentrated study of core texts in American literature through intensive practice of reading, thinking, and communication skills.

Students work on skill building through intensive study of how Thomas Jefferson's Declaration of Independence lays the foundation for the American Dream. Students will examine films, songs, short stories, and poems that explore the American Dream, along with such major literary works as *Fences*, *Death of a Salesman*, *The Bluest Eye*, and *The Great Gatsby*.

Students are required to write, conference, and revise five compositions each semester.

ENGLISH III

11th grade

Credit – 1 English credit

Full Year

Prerequisite: By teacher recommendation only

Because the English Department believes that in many cases the best way to group students for instruction is heterogeneously, some students enrolled in American Literature will require adapted and/or modified curricula to meet their developmental needs in literacy. These students will have individualized goals and will receive instruction and feedback based on their needs while staying in the American Literature classroom.

English III may be used as a designation for students who require modification in content, standards, and/or grading in the American Literature course. Students enrolled in English III will be introduced to the same course content as those students in the American Literature curriculum. Texts and written assignments will follow the same thematic and skill content, but will be adjusted for developmental level.

AP ENGLISH LITERATURE

12th Grade

Credit – 1 English credit

Full Year

Prerequisite: English department approval based on placement criteria. A student whose semester grade falls below a B- will meet with the teacher and parent to discuss the best placement for the student second semester.

AP English Literature is designed, in part, to prepare students to take the AP Literature and Composition exam. This exam emphasizes the skills of close reading and analysis of style through poetry and fictional prose. This course gives students the opportunity to hone their close reading and argumentation skills, makes them more comfortable with poetry analysis, and provides them practice in writing both at-home and in-class responses to literature. Four themes govern the course: Identity and Perception, Truth and Illusion, The Nature of Good and Evil, and Finding Purpose. Major texts include *Invisible Man*, *The Handmaid's Tale*, *The Importance of Being Earnest*, *Hamlet*, *As I Lay Dying*, *Heart of Darkness*, *The Inferno*, *All the King's Men*, and *Waiting for Godot*. In addition to these works, students read poems, short stories, and essays and complete an Independent Reading Assignment each semester. During first semester, students complete a research paper on a major author and read *A*

Tale of Two Cities or *Pride and Prejudice*. During second semester, they give a poetry presentation lasting most of a class period and read *White Noise* or *Catch-22*. Students are required to write, conference, and revise five compositions each semester. **Students begin the author project the summer before AP Literature begins.**

AP ENGLISH LANGUAGE AND COMPOSITION

12th Grade

Credit – 1 English credit

Full Year

Prerequisite: English department approval based on placement criteria. A student whose semester grade falls below a B- will meet with the teacher and parent to discuss the best placement for the student second semester.

The AP English Language and Composition course is designed to teach students to become critical readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and to become skilled writers who can compose for a variety of purposes, most notably persuasion. The course focuses on rhetorical analysis, argument, and synthesis, the key components of the AP Language and Composition exam, using primarily nonfiction works as the texts for developing these skills. Through their reading in this course, students develop a sophisticated awareness of the way generic conventions and the resources of language contribute to effective writing. Consequently, students develop sophistication in their own writing as they respond to complex issues and ideas. Students are required to write, conference, and revise a minimum of five compositions each semester and to complete at least two independent reading assignments, in addition to group study of both book-length and shorter texts. Students will conduct a research study of a topic of their own choosing and formally present their findings. **The course work begins with a written project synthesizing multiple texts to be completed in the summer before AP Language begins.**

SENIOR ENGLISH: SHAKESPEARE

11th - 12th Grade

Credit - 1/2 English credit

Semester – 1 and/or 2

Students will engage in intense study of the poetry and plays of the greatest playwright in English literature, exploring Shakespeare's works via text, film, and workshops. A central question of the course is, "How does Shakespeare's work relate to us today?" Study may begin with short pieces of classic British literature, such as selections of Chaucer's *The Canterbury Tales*, to provide some literary context, and material about Shakespeare's life and times, to provide historical context. Students will study the sonnets; a tragedy, *Hamlet*; a romance, *The Tempest*; a comedy, *Twelfth Night* or *Much Ado About Nothing*; and a history play, *Henry IV*, *Henry V*, or *Richard III*. These selections may be supplemented by a fifth well-regarded play such as *The Merchant of Venice* or *King Lear*. Students are required to write, conference, and revise a minimum of five compositions.

SENIOR ENGLISH: GREAT WORKS OF BRITISH LITERATURE (not offered 2015-2016)

11th - 12th Grade

Credit - 1/2 English credit

Semester – 1 and/or 2

In this survey course, students examine foundational British texts such as *Beowulf*, *The Canterbury Tales*, *Paradise Lost*, *Hamlet*, and other classics, as well as explore eighteenth, nineteenth, and twentieth century poets, novelists, and essayists. Key questions include "What can we learn about ourselves and others from this literature?" and "How has this literature helped to shape our identity?" Students will continue to refine their analytical writing skills as well as have the opportunity to respond creatively to this important literature. Students are required to write, conference, and revise a minimum of five compositions.

SENIOR ENGLISH: CONTEMPORARY WORLD LITERATURE

11th - 12th Grade
Credit - 1/2 English credit
Semester - 1 and/or 2

This course spotlights great world writers whose works represent modern literary developments, characterize the thinking of a particular generation, and illuminate the human condition. Thematic focuses include the individual coping with historical social change, the absurdity of modern life, and the quest for justice in an increasingly complex world. Literary works include the foundational texts *All Quiet on the Western Front*, *Mrs. Dalloway*, and *Waiting for Godot* or *No Exit*. Students also study *Chronicle of a Death Foretold*, contemporary short stories by recent award-winning authors, and select short pieces by poets, essayists, and filmmakers. Each student completes an independent reading project, and writes and conferences five compositions.

SENIOR ENGLISH: ADVANCED COMPOSITION I

11th - 12th Grade
Credit - 1/2 English credit
Semester - 1 and/or 2

Advanced Composition is a one-semester writing course for college-bound students who enjoy reading and who are interested in sharpening their composition skills before entering college. Students learn to write a variety of essays beyond literary analyses, including forms such as personal narrative, definition, comparison, classification, and argumentation. This class emphasizes the art of revision, focusing on the formal study of usage and grammar, the mastery of rhetorical strategies, and the careful reading of texts as models. In this semester course, students will complete an independent reading assignment and plan, write, workshop, revise and conference five papers. **A student must earn at least a C- in Advanced Composition I to enroll in Advanced Composition II.**

SENIOR ENGLISH: ADVANCED COMPOSITION II

11th - 12th Grade
Credit - 1/2 English credit
Semester 2

Prerequisite: Advanced Composition I, with a grade of C- or better

Advanced Composition II builds upon and moves beyond the skills studied and the essay forms learned in Advanced Composition I. For example, each student will research a contemporary issue, incorporating and properly documenting several outside sources into a persuasive essay. In addition, students will study complex types of literary analyses, such as poetry explication or an analysis using a particular critical lens. Students also complete an independent reading project as well as a formal presentation. Students will plan, write, workshop, revise and conference a total of five papers in this semester course.

SENIOR ENGLISH: GENRES IN WRITING & LITERATURE

11th - 12th Grade
Credit - 1/2 English credit
Semester - 1 and/or 2

Genres in Writing & Literature is an intensive course of study in the practical craft and aesthetic forms of expressive writing. Members of the class are responsible for building and maintaining a writer's community in which time is spent writing independently, discussing professional models of writing, and participating in "workshop," where students seek feedback from their peers about their own writings. Through writing, reading, and discussing, students study various techniques of important literary genres, including poetry, story, satire, and several forms of nonfiction. Emphasis in class goes to the analysis of style and structure, with at least one writing exercise due each week; emphasis outside of class is on the students' opportunity, ability, and responsibility to create, polish, and revise their own individual works on a regular basis. Because the writing assignments average more than one a week, the course is **only** recommended for students who actively enjoy writing or who are interested in improving

their own expressive writing. This senior elective course culminates with a capstone, a writing portfolio. Through this portfolio, students broaden their voices as writers by writing, revising and publishing twenty or more pages.

SENIOR ENGLISH: MASS MEDIA

11th - 12th Grade
Credit - 1/2 English credit
Semester - 1 and/or 2

In this course, students explore the roles and effects of mass media in the contemporary world, considering the rights, responsibilities, and ethics of the media, and its economic, political, and social impacts. Mass Media is designed to teach students the skills to become critical consumers and creators of mass media messages. The class examines the media's historical role in American society, the nature and influences of advertising and public relations, the legal issues associated with mass communication, and the implications of current social trends and technological developments of mass communications. Students read and respond to a wide variety of journalism in contemporary magazines, newspapers, and blogs. Students complete an independent reading project around one or more nonfiction books. Furthermore, students create mass messages on various platforms. Students write, conference, and revise five papers in a semester.

SENIOR ENGLISH: FILM IN AMERICAN SOCIETY

11th - 12th Grade
Credit - 1/2 English credit
Semester – 1 and/or 2

This course is designed to teach students about the significance of film in our society. Students will learn about the history of film, the storytelling aspects of film, and the portrayal of American History in film. A basic premise of the course is that film both shapes and reflects our society. Students will watch films in class and independently, and compose a series of essays analyzing the films. (All English students are required to conference and revise five of these compositions.) Students will analyze historical films, participate in class discussions, and write daily responses to the films. Students write and produce a short film. Examples of films studied in class may include *Modern Times*, *Casablanca*, *Dr. Strangelove*, *JFK*, *Apocalypse Now!*, *Gladiator*, and *American History X*. Students can enroll for English or History credit. The course is team-taught and meets during the same period. Attendance is crucial to success in this course.

ENGLISH IV

12th grade
Credit – 1/2 English credit
Semester – 1 and/or 2

Prerequisite: By teacher recommendation only

Because the English Department believes that in many cases the best way to group students for instruction is heterogeneously, some students enrolled in senior electives will require adapted and/or modified curricula to meet their developmental needs in literacy. These students will have individualized goals and will receive instruction and feedback based on their needs while staying in the senior elective classroom.

English IV may be used as a designation for students who require modification in content, standards, and/or grading in the senior elective course. Students enrolled in English IV will be introduced to the same course content as those students in the senior elective curriculum. Texts and written assignments will follow the same thematic and skill content, but will be adjusted for developmental level.

NON-CONFERENCED COURSES

FORENSICS

9th – 12th grade

Credit - 1/2 English credit per semester (non-conferenced)

Semester - 1 or both (not 2nd semester only)

(Meets 0-hour plus lab times TBA)

This course is designed for those students who plan to participate in the interscholastic speech and debate program. Students will learn and practice the art and skills of competitive forensics. Students participate in the research, writing, and presentation of material for competition in debate, public speaking, and/or oral interpretation of literature. First quarter units will include close study of public speaking, oral interpretation, and debate. Following the first quarter, students will choose their own individual areas of focus. All students are required to compete in a forensics tournament held outside the regularly scheduled class time. First year students are required to compete in a minimum of four forensics tournaments during the year; varsity students are required to compete in a minimum of six forensics tournaments during the year. Students complete various long-terms assignments individually and in small groups designed to prepare them for interscholastic competition. All students will play a major role in the preparation for and the production of the Clayton Fall Classic Speech and Debate Tournament. Competitive activities include public speaking (oratory, extemporaneous speaking, radio announcing), oral interpretation of literature (humorous interpretation, dramatic interpretation, duo interpretation, prose and poetry reading, storytelling) and debate (policy, public forum, Lincoln-Douglas). In addition, students may choose to present longer cuttings of literature that would be suitable for readers' theatre productions.

NEWSPAPER WRITING

9th - 12th Grade

Credit – 1 English credit (non-conferenced)

Full Year

Prerequisite: By application and consent of instructor (Available for NON-CONFERENCED ENGLISH CREDIT ONLY – NOT AVAILABLE FOR CAREER AND TECHNICAL EDUCATION CREDIT.)

Newspaper Writing is the class for reporters for the *Globe*, the school newspaper, and meets Tuesday, 0-hour, plus 2 hours lab time to be met every other day during lunch periods. The course encourages a hands-on approach to a variety of topics including news, feature, sports, and editorial writing, as well as introducing students to journalism style, history, law, and ethics. Students will engage in classroom group activities and written responses in addition to quizzes and tests over various aspects of journalism. All students will write a minimum of nine articles intended for publication over the year in addition to other class writing. Enrollment in the class is by application only. Interested students will pick up an application from the instructor or from the English office in January. Newspaper staff will be selected in time to complete the enrollment process in February. Selection will be based on completion of the application, a writing sample, and teacher recommendation. Students interested in being a newspaper photographer should sign up for Photojournalism for Publication, and those interested in being artists should see the instructor about signing up for the independent study options for that work. A workshop at the end of the summer is mandatory for all staff members.

ENGLISH CREDIT RECOVERY COURSES

COLLEGE PREP ENGLISH I/II–CREDIT RECOVERY

10th - 12th Grade

Credit – 1/2 English credit per semester

Semester – 2

This course is designed for students who have failed one semester of College Prep English I or College Prep English II. The course should be taken concurrently with another English class, including College Prep English II or any Conferenced English elective, so students can continue to earn the required four credits needed to graduate. In this class, students will read a variety of short stories, essays, poems, a novel or play, and an independent reading assignment. Students will also write and conference five compositions. The main focus of this class is for students to gain credit for failed English classes and to refine skills taught in College Prep English I and College Prep English II. Students in grades 10, 11, and 12 may take this class. Students may enroll for this class a maximum of two times. Students who have failed an entire year of College Prep English I or II should recover at least one semester credit in summer school; the second semester may be recovered with this class. Enrollment is limited to 15 students.

THE READING PROGRAM

The reading specialists serve as consultants for teachers and students, teach small group classes for specific strengthening of reading skills, and coach classroom teachers about best practices for literacy instruction within the general course offerings. Many students who no longer require daily reading instruction can receive support from the reading specialists and the Learning Center staff and strengthen their study skills. Some students may require more intensive support from the Special School District faculty if they have a reading disability. Any additional diagnostic assessment is directed through the reading specialists.

ACADEMIC READING I & II

9th - 12th Grade

Credit - 1/2 Elective credit per semester

Semester – 1 and/or 2

Prerequisite: Reading Specialist approval

This course is designed for the student who wants to become a proficient reader. Small groups explore what it means to be a proficient reader in the 21st century. This exploration focuses on reading and analyzing challenging texts while supporting content class learning. The classes provide opportunities to examine and practice effective reading strategies including building a strong vocabulary; making inferences; asking questions; summarizing; synthesizing; and visualizing. Students learn how to accelerate their reading and develop successful reading strategies to support classroom learning. Research indicates the singular best way to improve reading proficiency is to provide students with time to read. This class provides that time in class. **(This course does not qualify for NCAA eligibility.)**

ENGLISH LEARNERS

EL ENGLISH

9th - 12th Grade

Credit – 1 English credit

Full Year (1/2 credit per semester)

Prerequisite: Identified English Learner

This course is designed to provide identified English Learners (EL) with learning opportunities to develop English language skills in the areas of speaking, listening, reading, writing, grammar, and vocabulary. The curriculum is structured to meet the individual needs of English language students toward the goal of developing the level of English language proficiency necessary for academic success in high school and college. Learning experiences are designed for students based on their level of English language proficiency: Basic Beginner, High Beginner, Basic Intermediate, High Intermediate and Early-Advanced. Writing conferences with the teacher and peers are an integral part of the course. **(This course does not qualify for NCAA eligibility.)**

EL READING

9th - 12th Grade

Credit - 1 elective credit

Full Year (1/2 credit per semester)

Prerequisite: Identified English Learners

This course is similar in structure to the EL English course, with a more intensive focus on reading and writing. The course is designed to meet individual needs of English language students toward the goal of developing the level of English proficiency necessary for academic success in high school and college. The course focuses on the structural analysis of words, patterns of usage (grammar and syntax), vocabulary development, and comprehension strategies through guided reading and writing practice. Writing conferences with the teacher and peers are an integral part of the course. **(This course does not qualify for NCAA eligibility.)**

FINE ARTS - VISUAL ART

Enduring Understandings & Essential Questions

Humans create.

- What is art?
- Who is an artist?

The creative process develops ideas.

- How does art expand and enhance our thinking?

Systems are constructed to represent thinking and feelings.

- How does art record and communicate the human experience?
- How does art represent personal expression (exploration, insight)?

There is a relationship between art and culture.

- How does art reflect human culture?
- How does art influence what we can learn about ourselves and about our society?

FINE ARTS – VISUAL ART

The CHS visual arts program is the final sequence in the Clayton School District's comprehensive arts curriculum. This art program has been developed to provide meaningful experiences for those students who have an interest in the visual arts. Activities and work methods are employed to stimulate student interest and allow students to work toward individual expression. Students work with a variety of two and three-dimensional media in sequential study. Course content also includes investigating art history, learning to analyze and critique art, and making personal judgments based on acquired art knowledge. Through this approach, students will acquire appreciation, skills and a basic knowledge of art and its function in society. In the intro-level options, activities are carefully selected to provide a sequential art experience. As students progress through the curriculum, opportunities to explore areas of specific interest are increased. Greater flexibility is built into the program in the upper levels to allow for independent study, portfolio planning, and college preparation. The graduation requirement in fine arts is one unit.

Recommended sequence of courses:

Art I
Digital Graphics I
Digital Photography I
Sculpture I

Art II
Digital Graphics II
Digital Photography II
Sculpture II

Art III
Digital Photography III
Art IV
Advanced Studio Art
AP Art Studio I and II

ART I

9th - 12th Grade
Credit - 1/2
Semester 1 or 2

Art making will be the main emphasis of instruction in this course integrated with art history, aesthetics and art criticism. Working in a studio setting, students will follow a sequence of units in a variety of media. The skills of composition-building and creative problem solving are emphasized as students learn to use the elements and principles of design. Students will draft ideas and re-work assignments to learn the process of art. They will learn to make decisions about their individual artwork. Studying the work and methods of other artists, students will develop an understanding of the questions and issues of the larger world of art. Students will produce art and will learn ways to think and write about it. Journals/sketchbooks may be used to aid the thinking process. Students will create a portfolio of work reflecting the process and the products of the course. This portfolio will be discussed in the mid-term and final conferences. **(This course does not qualify for NCAA eligibility.)**

DIGITAL GRAPHICS I

9th - 12th Grade
Credit - 1/2
Semester 1 or 2

Digital Graphics I focuses on the creation of artwork used in the advertising and graphics industry as well as the fine arts. Students will learn the foundational skills of composition and the computer as they explore and practice the methods and procedures of graphic design. Working in a digital lab setting, students will use computers, cameras,

and the Adobe Creative Suite software to solve specific design problems. Class critiques and discussions will be an integral part of the process of learning about graphics and evaluating work. Students will learn ways to think and write about their artwork. The presentation of finished work will be an important part of building a final portfolio that will serve as the focus of the mid-term and final conferences. **(This course does not qualify for NCAA eligibility.)**

DIGITAL PHOTO I

9th - 12th Grade

Credit - 1/2

Semester 1 or 2

Digital Photo I focuses on photography as an art medium. Image making will be the main emphasis of instruction, integrated with photo history, aesthetics and photo criticism. The skills of composition-building and creative problem solving are emphasized as students learn to use the elements and principles of design. The camera will be used as a tool to visually express ideas and improve skills of observation. Digital media will easily allow the reworking and editing of images. Class critiques and discussions will be an integral part of the process of learning about photography and evaluating work. Students will produce photographic prints and will learn ways to think and write about them. Presentation of final prints will be an important part of building a final portfolio. This portfolio will be discussed in the mid-term and final conferences. **(This course does not qualify for NCAA eligibility.)**

SCULPTURE I

9th - 12th Grade

Credit – 1/2

Semester 1 or 2

Sculpture I focuses on three-dimensional art making. Students are encouraged to experiment and make individual choices about the techniques they will employ. Working in a studio setting, students work in a variety of sculpture media and processes (clay, wood, found objects, paper, wire, plaster molds). The skills of composition building (in relief and in-the-round) and creative problem solving are further developed as students draft ideas and rework assignments in the process of art making. Studying the work of other artists, students will deepen their understanding of the questions and issues of the larger world of art. Students will produce art and will learn ways to think and write about their work. Journals/sketchbooks may be used to aid in the thinking process of the course. They will create a portfolio of work reflecting the process and the products of the course, which will provide the focus for the mid-term and final conferences. **(This course does not qualify for NCAA eligibility.)**

ART II

10th - 12th Grade

Credit – 1/2

Semester 1 or 2

Prerequisite: Art I, the equivalent, or recommendation of an instructor.

This intermediate level course expands on the concepts introduced in Art I. Art making continues to be the emphasis of instruction. Students are encouraged to experiment and make individual choices about the techniques they will employ. Working in a studio setting, students work in a variety of media (drawing, painting, mixed media, collage, printmaking). The skills of composition building and creative problem solving are further developed as students draft ideas and rework assignments in the process of art making. Studying the work of other artists, students will deepen their understanding of the questions and issues of the larger world of art. Students will produce art and will learn ways to think and write about their work. Journals/sketchbooks may be used to aid in the thinking process of the course. Students will create a portfolio of work reflecting the process and the products of the course, which will provide the focus for the mid-term and final conferences. **(This course does not qualify for NCAA eligibility.)**

DIGITAL GRAPHICS II

9th - 12th Grade
Credit - 1/2
Semester 1 or 2

Prerequisite: Digital Graphics I, the equivalent, or recommendation of an instructor.

This one semester course is a continuation of Digital Graphics I. The course will offer students the opportunity to further develop their knowledge of computers and graphic design to create artwork, design layouts and construct images and content necessary for publication and web work. Students will solve specific design problems using the Adobe Creative Suite software. **(This course does not qualify for NCAA eligibility.)**

DIGITAL PHOTO II

9th - 12th Grade
Credit - 1/2
Semester 1 or 2

Prerequisite: Digital Photo I, the equivalent, or recommendation of an instructor.

In this course, photography is more fully explored as an art medium and in combination and comparison with other art media. While the techniques of Digital Photo I are reviewed and reinforced, photographs become a means to an end, not just an end in themselves. More in-depth study of Adobe Photoshop will be explored. Images are enlarged, altered, recomposed, and printed on a variety of surfaces. Design exercises will be an important part of developing a strong sense of composition. Students are encouraged to experiment and make individual choices about the techniques they will employ. Emphasis is on developing a visual awareness and understanding of past, present, and future trends in photography as a medium of self-expression. Students will be expected to participate in discussions and to complete written work pertaining to the production, aesthetics, and history of photography. **(This course does not qualify for NCAA eligibility.)**

SCULPTURE II

9th – 12th Grade
Credit – 1/2
Semester 1 or 2

Prerequisite: Sculpture I, the equivalent, or recommendation of an instructor.

This one semester course is the continuation of Sculpture I. Media and processes are explored in more depth as concepts and skills are expanded. The course offers students the opportunity to further develop their knowledge of three-dimensional media to create artwork and explore and solve design problems. **(This course does not qualify for NCAA eligibility.)**

ART III

10th – 12th Grade
Credit – 1/2
Semester 1 or 2

Prerequisite: Successful completion of Art II, the equivalent, or recommendation of an instructor.

In Art III, course content will include a range of open-ended studio assignments with the opportunity to explore a variety of solutions and media. During this course, students will learn the process of creating an artist's portfolio, including the selection of artwork and documentation. Aesthetics, art history, and criticism are explored in greater depth. **(This course does not qualify for NCAA eligibility.)**

DIGITAL PHOTO III

10th – 12th Grade
Credit - 1/2
Semester 1 or 2

Prerequisite: Digital Photo II

This is a one-semester course in advanced photographic design. Students will continue with the exploration of photographic design and will work to perfect skills in subject selection, shooting, printing, and computer manipulation. Students will develop approaches to photographic subjects and work methods that are best suited for their personal expressions and interests in photography. Students will also be expected to participate in discussions and to complete written work pertaining to the production, aesthetics, and history of photography. Presentations and papers may be required. **(This course does not qualify for NCAA eligibility.)**

ART IV

11th – 12th Grade
Credit - 1
Full Year

Prerequisite: Successful completion of Art III, the equivalent, or recommendation of an instructor.

In Art IV, the student may choose an area of emphasis and create a series of pieces that represent the development of an idea or a technique. Students will also work to develop the breadth of their portfolio. Final portfolio preparation will be completed with a focus on college admission requirements. **(This course does not qualify for NCAA eligibility.)**

ADVANCED STUDIO ART

11th-12th Grade
Credit – 1
Full Year

Prerequisite: Successful completion of Art IV, the equivalent, or recommendation of an instructor.

This course offers studio experiences for students not pursuing AP Art Studio. While some assignments will be similar to AP Art Studio, requirements will vary and other self-directed assignments will be required. Students may work toward college admission portfolios if desired. Course content will include a range of studio assignments with the opportunity to explore a variety of solutions and media. **(This course does not qualify for NCAA eligibility.)**

ADVANCED PLACEMENT – AP ART STUDIO I and II

11th - 12th Grade
Credit - 1
Full Year

Prerequisite: Permission of Department Chairperson

The AP Program in Studio Art is intended for the highly motivated student who is seriously interested in the study of art. Students should, however, be aware that AP work involves significantly more commitment and accomplishment than the typical high school art course and that the program is not for the casually interested. Note that the CHS AP Art program is a two-year program. The basic structure of the course is to prepare a portfolio for AP evaluation. Students can choose a general approach to their portfolio selections (painting, clay, photo, etc.), or they may concentrate in just drawing. The course will be offered on a yearly basis to allow students to present a portfolio in the spring of the *second* year. Two-year participation is recommended, but students may opt for one year of study in either their junior or senior year. **(This course does not qualify for NCAA eligibility.)**

FINE ARTS - PERFORMING ARTS

Enduring Understandings & Essential Questions

Creativity

- What is music/drama's role in education?
- How is music/drama a lifelong skill?
- How do we communicate the important role of the performing arts to the non-performer?

Developing Ideas

- How are students fluent in the language of the arts?
 - communicating and understanding outside the spoken language
- What does lifelong participation in the arts look like?
- What is the balance between performance and understanding?

Thinking and Feeling

- What are the benefits of an "Art" education?
- What is art's role in the enrichment of the human spirit?
- What would life be like without art?
- What is the relationship between process and product in the arts?

Art and Culture

- What is the role of the performing arts in society?
- Why is it important to be literate in the performing arts?
- What is the relationship between the performing arts and other disciplines (science, math, etc.)?
- What is great art?
- What is the role of the performing arts in history?
- How do the performing arts "communicate" across language and cultural barriers?

PERFORMING ARTS - MUSIC

The music program is designed to provide meaningful experiences for interested students. There are opportunities in both performance and non-performance classes. The curriculum offers sequential learning and allows students to progress individually, challenging each student to reach his/her maximum potential. Courses are available for beginning music students as well as the most advanced students. Courses are designed to develop skills in musicianship, interpersonal relations, listening, analysis, synthesis, and evaluation. Sequential courses are offered in three performance areas: band, orchestra, and choir. Playing experience is a prerequisite in band and orchestra. Each performing group meets daily and receives full academic credit. Also offered for students interested in music are Electronic Music, Guitar, Piano, and AP Music Theory. These courses meet daily.

CONCERT CHOIR

9th Grade or assignment by Director
(Mixed Voices)
Credit - 1
Full Year

Prerequisite: Previous vocal experience/consent of instructor

Members of Concert Choir develop music reading and singing skills through the study and performance of a wide variety of choral music – from classical to jazz and Broadway. Choir participation gives students the skills and opportunities to audition for All-Suburban or All-District Choirs, as well as participate in area music festivals. Students are required to participate in the scheduled performances. **(This course does not qualify for NCAA eligibility.)**

CHAMBER CHOIR

10th - 12th Grade
(Mixed Voices)
Credit - 1
Full Year

Prerequisite: AUDITION ONLY

Chamber Choir gives advanced vocal students the opportunity to study challenging high school choral literature in a broad variety of styles. Students further develop their singing skills and musical knowledge. Members are expected to participate in area music festivals and are encouraged to audition for All-District and All-State Choirs. Students are required to participate in the scheduled performances. **(This course does not qualify for NCAA eligibility.)**

VOCAL JAZZ ENSEMBLE

9th - 12th Grade
(Mixed Voices)
Credit - 1
Full Year

Prerequisite: AUDITION ONLY AND A CONCURRENT MEMBER IN A CHS MUSIC ENSEMBLE

This 12-24 member vocal ensemble studies and performs a variety of contemporary vocal styles including Broadway and jazz. This class meets during “zero” hour four days a week. Performances include both *a capella* and accompanied musical settings. Learning experiences often include interaction with other vocal jazz groups and instrumentalists. Students perform in a wide variety of venues and at all CHS choir concerts, and are required to participate in the scheduled performances. **(This course does not qualify for NCAA eligibility.)**

CONCERT ORCHESTRA

9th - 12th Grade
Credit - 1
Full Year

Prerequisite: Previous instrumental experience/consent of instructor

Concert Orchestra is open to all string players who wish to study music through performance, increase their individual performance skills, and participate in a large ensemble. Concert orchestra meets daily, and string orchestra literature is studied. This ensemble is a performing group that presents concerts throughout the year and performs in festivals and clinics. All music and some instruments are furnished. Students are required to attend all performances and extra rehearsals, to supply certain parts of the orchestra uniform, and to supply accessories to their instruments. Grade evaluation is based on written examinations, skill improvement on instruments, daily participation, and attendance at performances. **(This course does not qualify for NCAA eligibility.)**

SYMPHONIC ORCHESTRA

9th - 12th Grade
Credit - 1
Full Year

Prerequisite: AUDITION ONLY

Symphonic Orchestra is selected by audition. String, wind, and percussion students will audition or be selected if needed to participate in this ensemble to perform symphonic literature. Students will focus on string literature and will have the opportunity for full orchestra literature. Symphonic orchestra meets daily and students are expected to perform at a mature level, have a good understanding of the fundamentals of music, and be proficient on their instrument. The ensemble is a performing group that presents concerts and participates at festivals and clinics and community service events. Students are required to attend all performances and extra rehearsals, to supply parts of the orchestra uniform, and to supply accessories to their instruments. Grade evaluation is based on written examinations, skill improvement on instruments, daily participation, and attendance at performances. **(This course does not qualify for NCAA eligibility.)**

CONCERT BAND

9th - 12th Grade
Credit - 1
Full Year

Prerequisite: Previous instrumental experience

Concert Band is open to all wind instrument and percussion players who wish to participate in a performing group. Concert Band meets daily to refine the fundamentals of music and to expose students to a variety of music. The Concert Band is a performing group that presents concerts throughout the year. It also participates in festivals and clinics each year and performs as a pep band at various athletic and community events. All music and some instruments are furnished. Students are required to attend all performances and extra rehearsals, to supply certain parts of the band uniform, and to supply accessories to their instruments. Grade evaluation is based on written or playing examinations, skill improvement on instruments, daily participation, and attendance at performances. **(This course does not qualify for NCAA eligibility.)**

SYMPHONIC BAND

10th - 12th Grade

Credit - 1

Full Year

Prerequisite: Concert Band

Symphonic Band is open to students who play wind or percussion instruments. Students are expected to perform at a mature level, have a good understanding of the fundamentals of music, and be proficient on their instrument. The Symphonic Band meets daily to explore a variety of music in the Wind Band tradition. The ensemble is a performing group that presents concerts, participates at festivals, and also performs as a pep band at athletic and community service events. Students are required to attend all performances and extra rehearsals, to supply certain parts of the band uniform, and to supply accessories to their instruments. Grade evaluation is based on written or playing examinations, skill improvement on instruments, daily participation, and attendance at performances. **(This course does not qualify for NCAA eligibility.)**

JAZZ BAND

9th - 12th Grade

Credit – 1/2

Full Year

Prerequisite: Previous instrumental experience, current membership in a CHS performing ensemble, and/or permission of director. Students are required to attend the initial zero hour rehearsals prior to CHS jazz auditions. Each student participating in Jazz Band and Instrumental Jazz Ensemble must participate in the jazz audition process in late August/early September, regardless of experience.

Jazz Band is offered for students wishing to learn and develop the basic skills and concepts associated with jazz performance. This can be done on a student's primary or secondary instrument. Standard big band instrumentation (saxophone, trumpet, trombone, guitar, upright/electric bass, keyboard, and percussion) is used. Jazz Band rehearses two mornings per week during the "zero" hour. The band presents concerts throughout the year and participates in festivals and clinics. Students perform various styles of jazz including swing, bebop, Latin, rock, and fusion. Improvisational skills are developed as well as an understanding of the historical significance of jazz music and musicians. All music and some instruments are furnished. Students are asked to supply certain parts of a jazz uniform, to supply accessories for their instruments, and to participate in performances through the year. **(This course does not qualify for NCAA eligibility.)**

INSTRUMENTAL JAZZ ENSEMBLE

9th - 12th Grade

Credit - 1

Full Year

Prerequisite: Previous instrumental experience, current membership in a CHS performing ensemble, and/or permission of director. Students are required to attend the initial zero hour rehearsals prior to CHS jazz auditions. Each student participating in Jazz Band and Instrumental Jazz Ensemble must participate in the jazz audition process in late August/early September, regardless of experience.

Instrumental Jazz Ensemble is offered for students with advanced techniques on instruments commonly associated with jazz performance (trumpet, saxophone, trombone, guitar, upright/electric bass, keyboard, and percussion). Students perform various styles of jazz from ragtime to bebop to fusion. All music and some instruments are furnished. Students are asked to supply certain parts of a jazz uniform and to supply accessories for their instruments. Instrumental Jazz Ensemble rehearses four mornings per week during the "zero" hour. It presents concerts and participates in festivals and clinics. Students are required to participate in all performances throughout the year. **(This course does not qualify for NCAA eligibility.)**

CHAMBER MUSIC / SMALL ENSEMBLE PERFORMANCE

9th - 12th Grade
Credit - variable, 1/4 to 1
Full Year

Prerequisite: Performance skill on a Band or Orchestra instrument, piano, guitar, harp, or voice

Chamber Music/Small Ensemble Performance is a contract course that must be individually arranged with the Band Director, Chorus Director, or Orchestra Director. These ensembles include flute choir, percussion ensemble, wind ensemble, etc. Students will learn how to do the following: form a small ensemble; select appropriate music; research musical/performance style; and schedule, arrange, and publicize performances. All music and some instruments are furnished. Students will be evaluated on their performances and research on music performed. **(This course does not qualify for NCAA eligibility.)**

ELECTRONIC MUSIC I

9th - 12th Grade
Credit - 1/2
Semester - 1

Prerequisite: None

It's hip, it's cool, it's electronic music! Did you ever have a song in your thoughts and you want to figure out how to write it down? Do you like doodling on the piano or the drums? Did you ever want to learn how to use a synthesizer and create tracks of music? Then electronic music is the place for you! This introductory course designed for the novice emphasizes a "hands-on" working knowledge of the music recording industry through computer-controlled music systems. Software used in this class lets you create songs using your own compositions and pre-made loops. Students will work with MIDI piano keyboards and virtual instruments. They will also learn how to create their own CD label and cover jacket. Students are expected to complete projects, prepare compositions, pass quizzes, and prepare a complete CD recording of their music compilations. **(This course does not qualify for NCAA eligibility.)**

ELECTRONIC MUSIC - II

9th - 12th Grade
Credit - 1/2
Semester - 1 & 2

Prerequisite: Electronic Music I

This is a continuation of Electronic Music I, but this course emphasizes creating loops from scratch using MIDI hardware and virtual instruments to produce more complex musical compositions. Software used this semester is a virtual recording studio! Students will also study copyright issues for music production and how to market your music. Students are expected to complete projects, prepare compositions, pass quizzes, and prepare a complete CD recording of their music compilations. **(This course does not qualify for NCAA eligibility.)**

ELECTRONIC MUSIC - ADVANCED

9th - 12th Grade
Credit - 1/2
Semester – 1 & 2

Prerequisite: Electronic Music I & II

This is for students who have completed Electronic Music I & II. This is a performance-based Electronic Music class that may be repeated every year. Students are expected to take the knowledge learned from Electronic Music I & II to an advanced level. Students are expected to compose both vocal and instrumental compositions. Students will complete projects, prepare compositions, pass quizzes, and prepare a complete CD recording of their music compilations. **(This course does not qualify for NCAA eligibility.)**

GUITAR I

9th - 12th Grade
Credit - 1/2
Semester - 1

Prerequisite: Own or have access to an acoustic guitar

Guitar I is an introductory music course for students with little to no guitar experience. This class will focus on basic music notation, and chord symbol reading through an emphasis of individual performance skills. The student will learn how to tune and care for an acoustic guitar as well as learning basic performance skills on guitar. Development of a life-long skill for enjoyment and pleasure is the main objective. The student will be expected to pass written and playing examinations. **(This course does not qualify for NCAA eligibility.)**

GUITAR II

9th - 12th Grade
Credit - 1/2
Semester - 2

Prerequisite: Guitar I or consent of instructor and must own or have access to an acoustic guitar

A continuation of Guitar I, this course emphasizes increased performance ability and introduces improvisation. Students will focus on different musical styles including folk, jazz, pop, country, and rock. The student will be expected to pass written and playing examinations. **(This course does not qualify for NCAA eligibility.)**

PIANO

9th - 12th Grade
(9th with consent of instructor)
Credit - 1/2
Semester - 1 and/or 2

Prerequisite: None

An introductory music course emphasizing individual performance skills, note reading and music fundamentals. Development of life-long keyboard skills for musical enjoyment and pleasure is the main objective. The student will be expected to pass written and playing examinations. **(This course does not qualify for NCAA eligibility.)**

AP MUSIC THEORY

11th - 12th Grade

Credit - 1

Full Year

Prerequisite: A working knowledge of music notations and membership in CHS music ensemble(s)

The musically talented student is challenged to recognize and understand the basic materials and processes of music. This goal is approached through the development of fundamental aural, analytical, and compositional skills. The course provides a solid foundation in intervals, scales, chords, metric/rhythmic patterns, and the terms used to describe these elements of music as related to the major-minor tonal system. With this foundation, the course progression includes more complicated tasks, such as the following: dictation of melodic and harmonic materials; the analysis of music, including the study of motivic treatment and the rhythmic and melodic interaction between voices; harmonic analysis of a functional chord passage; and the realization of figured bass. The course covers all topics necessary for the Advanced Placement test that all students are encouraged to take. Harmony text and workbook are provided. **(This course does not qualify for NCAA eligibility.)**

FINE ARTS

PERFORMING ARTS - THEATER

The theater program is designed to provide rich learning experiences for any student interested in the various crafts of theater. There are sequential courses offered in two areas of emphasis: acting and production. Both areas begin with an introductory course in theater arts that allows students to experience all aspects of theater as a collaborative art form. Then the curriculum offers specific classes in acting, designing, and directing. These courses allow students to progress at their own speed and challenge students to reach for their potential. In conjunction with these classes, students can gain further experiences through the after-school theater program by acting, designing, and even directing.

Recommended sequence of courses:

9th	Theater Arts; Freshman-Sophomore Play; Musical Theater
10th	Acting I; Freshman-Sophomore Play; Musical Theater
11th	Advanced Acting/Directing Studio or Directing Theater; Fall Play; Musical Theater
12th	Advanced Acting/Directing Studio; Fall Play; Musical Theater; Senior Showcase

MUSICAL THEATER

9th – 12th grade

Credit – 1/4 – 1/2 credit

Offered 2nd and 3rd quarter after school from 3:15 – 4:00, MTHF

Prerequisite: None, but the class is required, but not limited to, all students cast in the school Musical and the SRM.

This course is designed specifically for students interested in musical theater performance. Students will alternate between voice and movement classes as well as learn about the history of different musical theater styles. Topics include: improving your vocal quality and range, learning how to move comfortably and with energy on stage, and learning how to audition for a musical. This is a great opportunity to flex performance muscles! **(This course does not qualify for NCAA eligibility.)**

THEATER ARTS

9th – 12th grade

Credit – 1/2

Full Year

Prerequisite: None

This full-year class focuses on theater as storytelling. The emphasis is on active work where we “do and reflect” rather than “read and discuss.” Students will learn how to work collaboratively in a group to create all kinds of performances. Through theater games and improvisation work, students learn skills that inform their roles as actor, director, and designer. **(This course does not qualify for NCAA eligibility.)**

ACTING I

9th – 12th grade

Credit – 1/2 (1/4 credit per semester)

Full Year

Prerequisite: Theater Arts or Musical Theater

This course is a must for any student interested in performance. While we continue to work on collaboration as an ensemble, more emphasis is put on technique of the individual actor. Voice and movement work is introduced into the actor's process and scene analysis such as physical action, tactics, concentration, observation, rhythm, and characterization. This class is important for students interested in directing and playwriting as well. **(This course does not qualify for NCAA eligibility.)**

ADVANCED ACTING AND DIRECTING STUDIO

10th - 12th Grade

Credit - 1

Full Year

Prerequisite: Acting I or recommendation of the teacher

This is a year-long course designed for the serious actor. Students will continue to study acting techniques; however, the performance level is advanced. Heightened emotion and heightened language scenes are tackled both as an actor and as a director. Students learn how to create a concept for a play and a prompt book for staging. Other possible areas of study include Shakespeare, period style movement, stage combat, clowning and mask, dialect work, and auditioning. The content of the class is geared toward the skill level of the individual student; thus, the class can be repeated without overlapping content. **(This course does not qualify for NCAA eligibility.)**

FALL PLAY: TOPICS

10th - 12th Grade

Credit –1/2

1st Quarter 3:15 – 4:00, MTHF

Prerequisite: None, but class is required, but not limited to, all students cast in the Fall Play.

This quarter-long class meets after school before Fall Play rehearsals and focuses on a specific topic of theater related to the Fall Play. For example, if the Fall Play is a Shakespeare play, then the course would focus on Acting for Shakespeare. You need not be in the Fall Play to take the class, but it is required for all actors cast in Fall Play. The class will not be used for rehearsal, but for specific course work to enhance each students' experience in working on the production. Topics may include Period Styles (Greek, Restoration, etc), Voice and Movement, and Theater History. **(This course does not qualify for NCAA eligibility.)**

FRESHMAN – SOPHOMORE PLAY

9th – 10th Grade

Credit – 1/4

1st Semester 3:15 – 6:00 Wednesdays

Prerequisite: None

This semester-long class meets after school on Wednesdays and culminates in a public performance of a play at the end of the semester. The first few weeks of class will include studying the play and learning to audition. Then auditions will be held and roles will be cast. Everyone who registers for the class will be involved on stage in the production. This is a great introduction to theater production and the theater department for underclassmen. While there is no prerequisite for Freshman-Sophomore Play, it is recommended to also register for Theater Arts and Acting I. **(This course does not qualify for NCAA eligibility.)**

DIRECTING THEATER

10th - 12th grade

Credit - 1/2

Semester 1 or 2

Prerequisite: Theater Arts

This class is required for any student interested in holding a leadership position in the Student Run Musical.

This course is designed for any student interested in directing. Students read a number of plays and work on conceptualizing a production. After a concept is created, students will learn how to do a formal director's analysis, staging, and acting rehearsals. Students will work off of major plays and their own original story ideas. While the focus is on directing for the theater, we will also discuss directing for film and television as well. **(This course does not qualify for NCAA eligibility.)**

SENIOR SHOWCASE

12th Grade

Credit – 1/4

4th Quarter 3:15 – 4:00, MTHF

Prerequisite: At least 1 credit of theater classes

This quarter-long class meets after school during 4th quarter and culminates in Senior Showcase public performance in May. The class will consist of reading plays, choosing and rehearsing scenes and monologues, and developing a 90-minute performance. The performance will be fully produced with lights and costumes. **(This course does not qualify for NCAA eligibility.)**

MATHEMATICS

Enduring Understandings:

Mathematics is a coherent, consistent system that provides for the effective communication and representation of conjectures, processes, and conclusions.

- **How do mathematical concepts relate and build upon each other?**

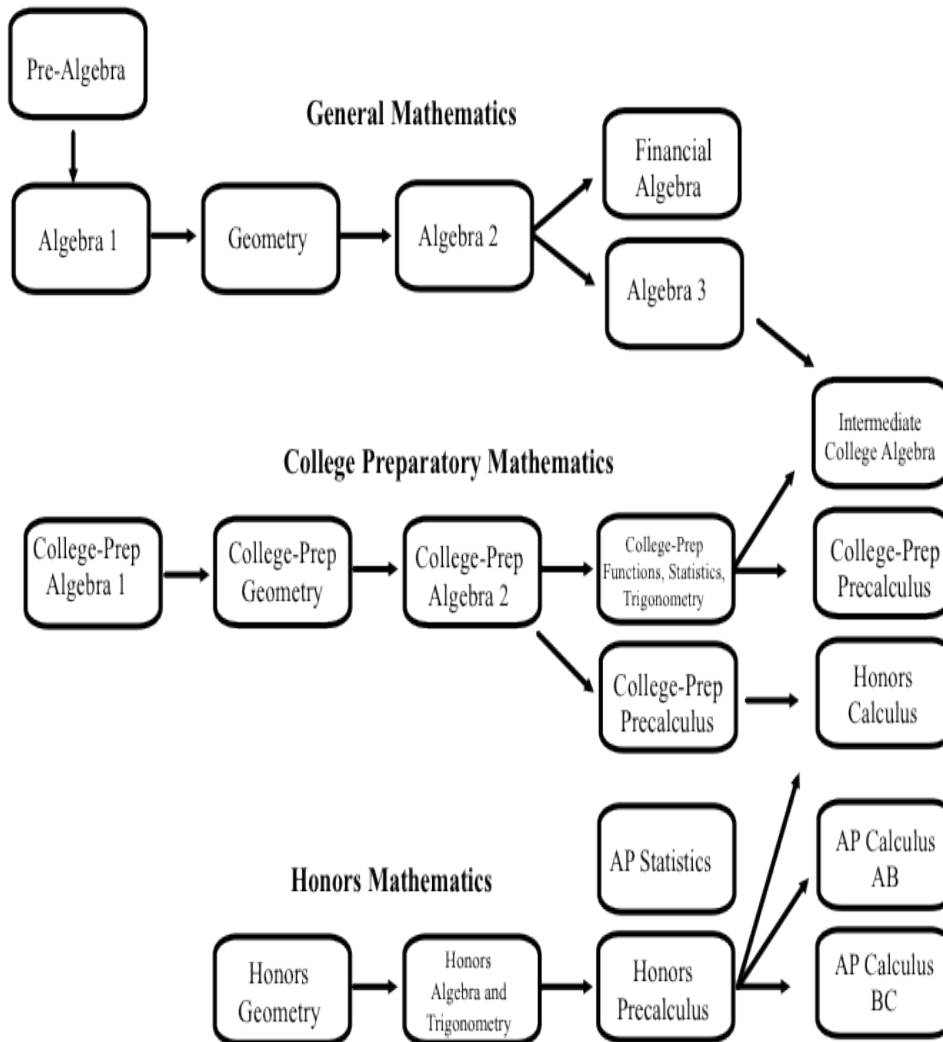
Mathematics is the organized study of the systems that form the structure of our universe.

- **How do we use mathematics to create a rationale based upon logical reasoning that convinces others of “the truth” of your ideas?**

Mathematics is used in all areas to quantify and to model situations in order to make predictions, inferences, and form conclusions.

- **How are appropriate mathematical strategies and representations developed, selected, and applied in order to interpret a given situation and communicate the results?**
- **How is mathematics used to quantify the components that create the form and structure of our universe?**

Secondary Mathematics in the School District of Clayton



The mathematics curriculum at Clayton High School provides a strong four-year program for all students. The state of Missouri requires three credits in mathematics for graduation. Most students at Clayton High School take four years of mathematics. Colleges generally require at least three units in high school mathematics, and four units are required at most selective colleges. The curriculum emphasizes problem solving with real-world applications, effective communication using the language of mathematics, reasoning skills, and making connections within mathematics and with other disciplines of study. Use of computers, calculators, and other technological tools extends the understanding of mathematical concepts and enriches problem-solving experiences.

The prerequisites required for some classes in the mathematics department cannot be satisfied by summer school courses alone. Repeating a course in summer school may satisfy the prerequisite requirement. **Students should verify the acceptance of any summer school course with the mathematics department chair BEFORE enrolling.**

COLLEGE-PREP SEQUENCE

Each year, this sequence addresses strand-specific courses typically studied in a college preparatory program: College-Prep Algebra 1; College-Prep Geometry; College-Prep Algebra 2; or College-Prep Functions Statistics and Trigonometry; Intermediate College Algebra; College-Prep Precalculus; Honors Calculus. The TI-Nspire CX graphing calculator is used extensively for demonstrations, class activities, and homework. It is strongly recommended that each student purchase a TI-Nspire CX graphing calculator.

COLLEGE-PREP ALGEBRA 1

9th – 12th Grade

Credit - 1

Full Year

Prerequisite: Teacher recommendation

College-Prep Algebra 1 is intended to build a foundation for students progressing through the College-Prep sequence. Topics studied in this course include algebraic expressions, linear equations and functions, linear inequalities, systems of linear equations, exponents and exponential functions, and quadratic expressions, functions and equations. Students will access the curriculum through McGraw-Hill's "Glencoe: Algebra I" textbook. The TI-Nspire CX graphing calculator is used for demonstrations, class activities and homework. It is strongly recommended that each student purchase a TI-Nspire CX graphing calculator.

ALGEBRA I SUPPORT

9th – 12th Grade

Credit – 1/4

Semester 1 or 2 (A or B days)

Prerequisite: Teacher Recommendation

Algebra I Support is a course designed to help students having difficulties meeting the requirements of an Algebra I course. The course mirrors topics being studied concurrently in Algebra I. Teachers of this course will also be teaching Algebra I, providing an ideal environment for students who need additional support to be successful. Algebra I Support is for elective credit only. **(This course does not qualify for NCAA eligibility.)**

COLLEGE-PREP GEOMETRY

9th – 12th Grade

Credit - 1

Full Year

Prerequisite: Teacher recommendation

College-Prep Geometry will further the development of critical thinking skills in mathematics. Algebraic techniques are emphasized to further the understanding of geometry. Topics studied in this course include Euclidean Geometry, which consists of reasoning and proof, parallel lines, triangle congruence and similarity, area and volume, polygons (with special emphasis on triangles and quadrilaterals), right triangles and trigonometry and circles. Students will access the curriculum through “Glencoe: Geometry, CCSS edition”. The TI-Nspire CX graphing calculator is used for demonstrations, class activities and homework. It is strongly recommended that each student purchase a TI-Nspire CX graphing calculator.

GEOMETRY SUPPORT

9th - 12th Grade

Credit - 1/4

Semester 1 or 2 (A or B days)

Prerequisite: Teacher Recommendation

Geometry Support is a course designed to help students meet the requirements of Geometry. The course mirrors topics being studied concurrently in Geometry. Teachers of this course will also be teaching Geometry, providing an ideal environment for students who need additional support to be successful. Geometry Support is for elective credit only. **(This course does not qualify for NCAA eligibility.)**

COLLEGE-PREP ALGEBRA 2

10th - 12th Grade

Credit - 1

Full Year

Prerequisite: College-Prep Geometry

College-Prep Algebra 2 will review and expand algebraic skills. Topics studied in this course include linear functions, transformations, systems of equations and inequalities, quadratic functions, polynomials and polynomial functions, inverses and radical functions, exponential and logarithmic functions and properties, rational function operations, sequences and series, statistics and probability, right triangle trigonometry, and trigonometric functions. Students will access the curriculum through McGraw-Hill’s “Glencoe: Algebra 2” textbook. The TI-Nspire CX graphing calculator is used for demonstrations, class activities and homework. It is strongly recommended that each student purchase a TI-Nspire CX graphing calculator.

ALGEBRA 2 SUPPORT

10th - 12th Grade

Credit - 1/4

Semester 1 or 2 (A or B days)

Prerequisite: Teacher Recommendation

Algebra 2 Support is a course designed to help students having difficulties meeting the requirements of an Algebra 2 course. The course mirrors topics being studied concurrently in Algebra 2. Teachers of this course will also be teaching Algebra 2, providing an ideal environment for students who need additional support to be successful. Algebra 2 Support is for elective credit only. **(This course does not qualify for NCAA eligibility.)**

COLLEGE-PREP FUNCTIONS, STATISTICS AND TRIGONOMETRY

11th - 12th Grade

Credit - 1

Full Year

Prerequisite: College-Prep Algebra 2

Functions, Statistics, and Trigonometry combines the ideas of functions, trigonometry, statistics and data analysis. Functions, including linear, quadratic, exponential, logarithmic, and polynomial will be studied. Additional topics of study include probability, sequences, series, permutations, combinations, and trigonometric identities are included in this course. Students will collect, analyze, process and display data. Students will access the curriculum through McGraw-Hill's "Algebra & Trigonometry" by John Coburn. The TI-Nspire CX graphing calculator is used extensively for demonstrations, class activities and homework. It is strongly recommended that each student purchase a TI-Nspire CX graphing calculator.

INTERMEDIATE COLLEGE ALGEBRA

12th Grade

Credit - 1

Full Year

Prerequisite: Algebra 3 or FST

Intermediate College Algebra is designed to prepare students for college-level mathematics. Emphasis will be on practicing and expanding algebraic topics to enable students to use mathematics as a modeling language for real life problems. The advanced algebraic topics studied include number systems, linear equations and inequalities, matrices, exponential and logarithmic functions, polynomial functions, conic sections, and rational functions. Students will access the curriculum through Larson's "Intermediate Algebra: Graphs and Functions". The TI-Nspire CX graphing calculator is used extensively for demonstrations, class activities and homework. It is strongly recommended that each student purchase a TI-Nspire CX graphing calculator. **(This course does not yet qualify for NCAA eligibility.)**

COLLEGE-PREP PRECALCULUS

11th – 12th Grade

Credit - 1

Full Year

Prerequisite: College-Prep Functions, Statistics and Trigonometry or teacher recommendation from College-Prep Algebra 2 teacher

The primary goal of College-Prep Precalculus is to foster an appreciation for the axiomatic and deductive approaches used in many fields. This course consists of topics from Precalculus and discrete mathematics. Precalculus focuses on infinite and continuous processes, while discrete mathematics focuses on finite and iterative processes. Topics studied in this course include trigonometry, analytical geometry, introductory derivatives, integrals, polynomial, rational, exponential, and logarithmic functions and their graphs. Students will access the curriculum through Glencoe's "Precalculus: Common Core Edition". The TI-Nspire CX graphing calculator is used extensively for demonstrations, class activities and homework. It is strongly recommended that each student purchase a TI-Nspire CX graphing calculator.

HONORS CALCULUS

12th Grade

Credit -1

Full Year

Prerequisite: Honors Precalculus or College-Prep Precalculus

Honors Calculus defines and demonstrates the fundamental concepts and rules of differential and integral calculus. This course is designed for students who intend to take Calculus as university freshmen and is not intended to prepare students for the AP Calculus exam. Topics studied in this course include limits and continuity, differentiation rules, graphing techniques, optimization, differentials, integration rules and techniques, simple slope fields and differential equations, area and volume. Many practical applications of calculus are included. The textbook used is Larson's "Calculus of a Single Variable, 9th edition". The TI-Nspire CX graphing calculator is used extensively for demonstrations, class activities and homework. It is strongly recommended that each student purchase a TI-Nspire CX graphing calculator.

GENERAL MATHEMATICS

At CHS, students who participate in the General Mathematics sequence will receive mathematics instruction designed to meet the needs of students who need more time developing mathematical concepts. The General Mathematics sequence features hands-on study of topics such as algebra, geometry, statistics, trigonometry, discrete mathematics, and finances. Successful completion of the full course sequence prepares students for a college algebra course. The TI-Nspire CX graphing calculator is used extensively for demonstrations, class activities, and homework. It is strongly recommended that each student purchase a TI-Nspire CX graphing calculator.

PRE-ALGEBRA

9th – 12th Grade

Credit - 1

Full Year

Prerequisite: Teacher Recommendation

Pre-Algebra reviews the necessary concepts to be successful in an Algebra 1 course. Based on the needs of the students, topics will include a review of fractions, scientific notation, memorizing multiplication tables and perfect squares. Topics studied include operations with signed numbers, powers, roots, algebraic expressions, graphing

equations solving one step and working to solve multi-step equations. Application problems include money problems, hourly rates to figure gross pay, and calculating tips. Students will access the curriculum through “Jamestown’s Number Power: Algebra” by Robert Mitchell. Students utilize a scientific calculator, but most work is done without a calculator. **(This course does not qualify for NCAA eligibility.)**

ALGEBRA 1

9th – 12th Grade

Credit - 1

Full Year

Algebra 1 creates a foundation for all future math coursework. Topics include order of operations, equations and inequalities, equations of lines, systems of equations and inequalities, exponent properties and exponential functions, radical expressions, and probability. Students will access the curriculum through Prentice Hall’s “Algebra 1 Foundation Series”. The TI-Nspire CX graphing calculator is used for demonstrations, class activities and homework. It is strongly recommended that each student purchase a TI-Nspire CX graphing calculator. **(This course does not qualify for NCAA eligibility.)**

GEOMETRY

9th – 12th Grade

Credit - 1

Full Year

Prerequisite: Algebra 1

Geometry will develop geometric concepts which include tools of Geometry, reasoning, proof, parallel and perpendicular lines, congruent triangles, relationships with triangles, polygons and quadrilaterals, similarity, right triangles trigonometry, transformations, area, surface area volume. Students will access the curriculum through Prentice Hall’s “Geometry Foundation Series”. A graphing calculator will be utilized during the investigation of spatial topics, however most work will utilize a scientific calculator. It is strongly recommended that each student purchase a scientific calculator. **(This course does not qualify for NCAA eligibility.)**

ALGEBRA 2

10th - 12th Grade

Credit - 1

Full Year

Prerequisite: Geometry

Algebra 2 will review and expand algebraic skills. Topics studied in this course include expressions, equations and inequalities, functions, equations and graphs, linear systems, quadratic functions and equations, polynomials and polynomial functions, radical functions and rational exponents, exponential and logarithmic functions, direct and inverse variation, reciprocal function families, introduction to sequences and series, matrices, law of sines and cosines, and right-triangle trigonometry. Students will access the curriculum through Prentice Hall’s “Algebra 2 Foundation Series”. Students utilize the TI-Nspire CX Graphing Calculator to simplify procedures, investigate new functions, and visualize models. **(This course does not qualify for NCAA eligibility.)**

ALGEBRA 3

11th - 12th Grade

Credit - 1

Full Year

Prerequisite: Algebra 2

Algebra 3 focuses on the continuation of study of Algebra and Trigonometry. Topics studied in this course include linear equations and inequalities, polynomials, factoring, rational expressions, trigonometric identities and functions: exponential, logarithmic, trigonometric, inverse trigonometric. Students will access the curriculum through “Algebra and Trigonometry for College Readiness” by Lial and Hornsby. The TI-Nspire graphing calculator is used extensively for demonstrations, class activities and homework. It is strongly recommended that each student purchase a TI-Nspire graphing calculator.

INTERMEDIATE COLLEGE ALGEBRA

12th Grade

Credit - 1

Full Year

Prerequisite: Algebra 3 or FST

Intermediate College Algebra is designed to prepare students for college-level mathematics. Emphasis will be on practicing and expanding algebraic topics to enable students to use mathematics as a modeling language for real life problems. The advanced algebraic topics studied include number systems, linear equations and inequalities, matrices, exponential and logarithmic functions, polynomial functions, conic sections, and rational functions. Students will access the curriculum through Larson’s “Intermediate Algebra: Graphs and Functions”. The TI-Nspire CX graphing calculator is used extensively for demonstrations, class activities and homework. It is strongly recommended that each student purchase a TI-Nspire CX graphing calculator. **(This course does not yet qualify for NCAA eligibility.)**

FINANCIAL ALGEBRA

12th Grade

Credit - 1

Full Year

Prerequisite: Algebra 2

Financial Algebra is designed to develop a strong foundation in logical thinking and problem solving that will enable students to make informed decisions regarding matters of money and finance in their daily lives. This course furthers the development of functions, which include linear, exponential, piece-wise, quadratics, and step functions. Other topics studied include measures of center and spread, graphical representations of data, principles of finance economics, amortization, supply and demand, revenue and profit functions, loans, compound interest and continuous interest, credit card debt, car ownership, and budgets. Students will access the curriculum through “Financial Algebra” by Gerver and Sgroi. The TI-Nspire CX graphing calculator is used extensively for demonstrations, class activities and homework. It is strongly recommended that each student purchase a TI-Nspire CX graphing calculator. **(This course does not qualify for NCAA eligibility.)**

HONORS MATHEMATICS

At CHS, students who participate in the Honors Mathematics sequence are expected to complete a fast-paced, rigorous course of study. The Honors Mathematics sequence features an in-depth study of mathematics topics such as Honors Geometry, Honors Algebra/Trigonometry, Honors Precalculus and Honors Calculus. The TI-Nspire CX graphing calculator is used extensively for demonstrations, class activities and homework. It is strongly recommended that each student purchase a TI-Nspire CX graphing calculator. Successful completion of the full course sequence prepares students for second or third semester university calculus.

HONORS GEOMETRY

9th - 12th Grade

Credit - 1

Full Year

Prerequisite: Honors Algebra

Honors Geometry develops topics from plane Euclidean Geometry. Topics studied include parallel and perpendicular lines, congruent triangles, similarity, right triangles and trigonometry, quadrilaterals, transformations, circles, measurement of figures and solids. A major emphasis is placed on the development of critical thinking skills, both inductive (geometric pattern recognition) and deductive (formal proofs), and selected rules of inference used in the development of geometry as an axiomatic system. Algebraic techniques are utilized to further the understanding of geometry. Students will access the curriculum through Larson's "Geometry, Common Core Edition". The TI-Nspire CX graphing calculator is used extensively for demonstrations, class activities and homework. It is strongly recommended that each student purchase a TI-Nspire CX graphing calculator.

HONORS ALGEBRA AND TRIGONOMETRY

10th - 12th Grade

Credit - 1

Full Year

Prerequisite: Honors Geometry

The primary focus of Honors Algebra and Trigonometry is the study of functions and their properties. Polynomial, radical, rational, exponential, logarithmic, and trigonometric functions will be studied, with specific attention given to transformations and inverses. Additional topics of study include trigonometric identities, sequences, series, binomial probability, and conic sections. Students will access the curriculum through Glencoe's "Algebra 2" text. The TI-Nspire CX graphing calculator is used extensively for demonstrations, class activities and homework. It is strongly recommended that each student purchase a TI-Nspire CX graphing calculator.

HONORS PRECALCULUS

11th - 12th Grade

Credit - 1

Full Year

Prerequisite: Honors Algebra and Trigonometry

Honors Precalculus consists of advanced algebraic and trigonometric topics selected to augment the students' background in preparation for Calculus. Functions including polynomial, rational, exponential, logarithmic, and trigonometric will be studied. Additional topics of study include trigonometric identities, sequences, series, probability, combinations, permutations, conic sections, vectors, and an introduction to derivatives and integrals.

Students will access the curriculum through Larson’s “Precalculus with Limits: A Graphing Approach”. The TI-Nspire CX graphing calculator is used extensively for demonstrations, class activities and homework. It is strongly recommended that each student purchase a TI-Nspire CX graphing calculator.

AP CALCULUS AB & BC

12th Grade

Credit -1

Full Year

Prerequisite: Honors Precalculus

AP Calculus (AB): This advanced placement course will allow for the possibility of earning one semester of college credit. This course studies all topics set by College Board for AP Calculus AB. Topics studied include limits and their properties, differentiation, applications of differentiation, integration, logarithmic and exponential, and other transcendental functions, differential equations, applications of integration, and L’Hopital’s rule and integration by parts. To familiarize students with specific advanced placement expectations, exams and homework problems will include selections from past AP exams. Students taking the AP test in May will also be required to take a semester exam. Students will access the curriculum through Larson and Edward’s “Calculus of a Single Variable: AP Edition”. The TI-Nspire CX graphing calculator is used extensively for demonstrations, class activities and homework. It is strongly recommended that each student purchase a TI-Nspire CX graphing calculator.

AP Calculus (BC): This advanced placement course will allow for the possibility of earning two semesters of college credit. While the presentation will be faster paced and more in-depth than Calculus AB, considerable attention will be given to an intuitive and numerical perspective. In addition to the topics listed in the Calculus AB description, further development of integration techniques, differential equations, infinite series, polar functions, and vector functions will complete the syllabus. There will be a significant emphasis on problem solving and applications of the calculus. Students taking the AP test in May will also be required to take a semester exam. Students will access the curriculum through Foerster’s “Calculus: Concepts & Applications”. The course includes use of the TI-Nspire CX graphing calculator, and Geometer’s Sketchpad software. It is strongly recommended that each student purchase a TI-Nspire CX graphing calculator.

AP STATISTICS

11th - 12th Grade

Credit -1

Full Year

Prerequisite: Honors Algebra & Trigonometry, or College-Prep Functions, Statistics & Trigonometry

AP Statistics introduces students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Topics include exploring data, planning a study, anticipating patterns, and making statistical inferences. This course is designed to emphasize statistical thinking and minimize computational procedures. Content is designed as effective preparation for college classes in statistics and prepares students for the Advanced Placement Statistics exam. Students will access the curriculum through Peck’s “Introduction to Statistics and Data Analysis”. Daily access to a graphing calculator with powerful statistical capabilities is vital to success in this course. The TI-Nspire CX graphing calculator is used extensively for demonstrations, class activities and homework. It is strongly recommended that each student purchase a TI-Nspire CX graphing calculator. The mathematics department strongly recommends completion or concurrent enrollment in Honors Precalculus or College-Prep Precalculus.

PHYSICAL EDUCATION AND HEALTH

Essential questions:

- What is a healthy lifestyle?
- How do decisions I make affect my physical, mental, and social health?
- How do the physical activities I do (games, conditioning) affect my quality of life now and in the future?
- What activities will I enjoy doing in the future to maintain my physical fitness? What skills will I need? How do I fit physical fitness into my daily routine?
- How does the functioning of body systems affect health and what should I do to maintain them?
- How does health affect all other areas of life?
- How do I work together with other people in physical activities? What does it mean to be part of a team? When is it appropriate to cooperate and when is it appropriate to compete?
- How do I evaluate the reliability of health information?

The graduation requirement in health and physical education is one and one-half units (1 unit PE/.5 unit Health). Courses are generally scheduled on alternate days and are designed to enhance student development of proper wellness habits through participation in various physical activities, demonstrations, and laboratory investigations. Courses are structured to allow students of varying abilities to have successful experiences. Assessment of present and future physical needs through the planning and development of lifetime fitness programs is emphasized in some courses. Other courses focus on the development of proper fitness habits through participation in a variety of activities. All courses focus on providing the student with an appreciation of exercise and health as well as providing the student with the body of knowledge necessary to make intelligent decisions concerning health, fitness, and recreational pursuits.

Six quarter credits are to be completed for graduation. The courses generally taken during ninth grade are Choosing Wellness and Fitness for Life. Healthy Decisions is generally taken during the tenth grade. The remaining quarter of required credit should be completed in subsequent years and should be chosen from the team and individual electives.

Juniors and seniors complete an additional one-half unit of credit on an elective basis. Students may choose from a variety of courses within the Team and Individual Electives, which meet on a traditional basis during school hours, or from a variety of Independent Study** courses, which meet on a non-traditional basis. A summer physical education course is offered as well, but can only be taken one time throughout high school.

* Course can be taken more than once

**Enrollment in Independent Study Courses requires instructor's recommendation.

CHOOSING WELLNESS

9th Grade

Credit - 1/4

Semester 1 or 2

This ninth grade required course provides students with the information and skills necessary for making good wellness choices and achieving optimal health. The areas of consumer health, body systems, first aid, nutrition, and mental health, including stress, are explored. Active teaching methods are used throughout the class, including research, group discussion and presentations, case studies, role-plays, demonstrations, expert guest speakers, and educational games. Analysis, self-evaluation, and goal setting are emphasized as students make wellness decisions to meet their individual needs. **(This course does not qualify for NCAA eligibility.)**

FITNESS FOR LIFE

9th Grade

Credit - 1/4

Semester 1 or 2

Students who pass a basic swimming test and Physical Fitness test will take this required course. This class will focus on the fitness principles and will involve anaerobic, aerobic and strength-building activities each class period. Within the semester, students will be given some choice as to the activities they want to do to increase their fitness and will become familiar with several activity options to stay fit throughout their life. Fitness testing is required by the State of Missouri and will occur at the beginning and end of the semester. **(This course does not qualify for NCAA eligibility.)**

HEALTHY DECISIONS

10th Grade
Credit - 1/4
Semester 1 or 2

Prerequisite: Choosing Wellness

This tenth grade required course provides students with information, appropriate prevention strategies, and coping skills necessary to analyze and address health information and issues, particularly the numerous health issues that face teenagers and young adults. Units studied include violence prevention; mental health; consumer health; tobacco, alcohol, and other drug prevention; healthy and unhealthy relationships and sexual health. Active learning methods are used throughout the class including research, group discussion and presentations, case studies, role-plays, demonstrations, expert guest speakers, and educational games. Analysis, self-evaluation, and goal setting are emphasized. **(This course does not qualify for NCAA eligibility.)**

TEAM AND INDIVIDUAL ELECTIVES

These courses provide students with the opportunity to experience a variety of team and individual activities that may be enjoyed during leisure time, now and in adulthood. Development of skills associated with participating in each activity is emphasized. Students are also provided the opportunity to interact in cooperative learning situations and to develop socialization skills.

TEAM SPORTS

9th - 12th Grade*
Credit - 1/4
Semester 1

This is a class where students can have fun while improving their physical fitness. Students are provided the opportunity to interact in cooperative learning situations and to develop socialization skills. A variety of activities are offered to keep them excited about the class. Team sports also give some of our students a chance to participate in a sport activity they normally would not (the non-athletes). We begin each day by jogging and stretching to properly warm up before the activity starts. The activities chosen may include, but are not limited to, flag football, pillow polo, indoor or outdoor soccer, kickball, volleyball, mat ball, floor hockey and basketball. **(This course does not qualify for NCAA eligibility.)**

RACQUET AND NET SPORTS

9th - 12th Grade*
Credit - 1/4
Semester 1

Volleyball is taught along with Racquet Sports with each session being nine weeks in length. The students will master a series of skills tests to help develop an appreciation and understanding of the game of volleyball. The test will consist of serving, setting, bumping, and digging in addition to understanding strategies needed to compete in a recreational game of volleyball as a lifetime activity.

The racquet sports section will consist of the following sports: Tennis, badminton, table tennis, and pickle ball. Badminton is a unique sport that anyone with any skill level can enjoy. The rules, grip, stance, serves and equipment will be explored in this class. This is a fun class and is designed to help improve students' skills and knowledge to play these racquet sports for a lifetime of pleasure. **(This course does not qualify for NCAA eligibility.)**

STRENGTH AND ENDURANCE

9th - 12th Grade*

Credit - 1/4

Semester 1 or 2

This course provides students with the opportunity to exercise at a high level. It provides the perfect situation for students who are training for an upcoming sport or students who enjoy vigorous fitness training. The methods of training will consist of aerobic and anaerobic conditioning, and of plyometric and strength training to enhance health and skill-related fitness. **(This course does not qualify for NCAA eligibility.)**

5K/TRIATHLON TRAINING

10th - 12th Grade*

Credit - 1/4

Semester 1 or 2

This course will train students over the course of a semester how to train and run in 5K's and to train for a triathlon. We will utilize the indoor and outdoor tracks, Shaw Park, the indoor pool and the spinning bikes. Students will be required to run in at least two 5K's over the course of the semester, and will finish with a triathlon. **(This course does not qualify for NCAA eligibility.)**

CROSSFIT

10th - 12th Grade*

Credit - 1/4

Semester 2

This course will utilize the fitness revolution that is sweeping the country right now. The slogan of forging elite fitness will guide our class. We will use different tactics (such as a WOD – workout of the day) to build functional fitness for anyone. This strength and conditioning program is constantly varied, high-intensity, and has functional movement. The training will consist of aerobic and anaerobic conditioning, plyometric and strength training. **(This course does not qualify for NCAA eligibility.)**

BASIC CLIMBING

10th - 12th Grade

Credit - 1/4

Semester 1 or 2

This is a beginning course in basic climbing skills. The climbing wall, located in the Center of Clayton, will be utilized in developing basic rock climbing skills and techniques, and in developing the knowledge needed to safely enjoy this sport. In addition, the instruction in proper strength training and aerobic conditioning associated with climbing will be presented. Students' grades are a combined total of points from their participation grade and skill-based assessments. Enrollment is limited to 10 students per class period. **(This course does not qualify for NCAA eligibility.)**

ADVENTURE EDUCATION

10th – 12th Grade*

Credit - 1/4

Semester 1 or 2

This course offers students the opportunity to participate in a variety of different adventure education activities. Initiative games, team challenges, climbing, orienteering, archery, and outdoor cooking are just a sampling of activities that will be taught during the semester. All interested students 10th – 12th grade are encouraged to enroll. **(This course does not qualify for NCAA eligibility.)**

BODYROCK AEROBICS AND DANCE

10th - 12th Grade*

Credit - 1/4

Semester 1 or 2

This course offers students the opportunity to participate in a variety of creative movement activities that are both locomotor and non-locomotor. It is set up by quarter, with the beginning of the class concentrating on aerobics and the second half on dance. This course will offer students the opportunity to experience different forms of aerobic conditioning with such things as body sculpting, step-aerobics, abdominal classes and spin. Students will develop rhythmic and spatial awareness while they improve their flexibility and conditioning levels. Dance forms taught during the course will include Latino dance and hip-hop dance. Students of all skill levels are invited to sign up for this class. **(This course does not qualify for NCAA eligibility.)**

INDEPENDENT STUDY - PERSONAL FITNESS

11th - 12th Grade*

Credit - 1/4

Semester 1 or 2

Prerequisite: Consent of the Instructor

Personal Fitness is designed to allow students the opportunity to improve their health-related fitness while participating in activities they enjoy and can do for a lifetime. Students use a portfolio approach to assess their current fitness needs by completing a series of tests that determine their cardiovascular fitness, strength, endurance, flexibility, and body composition. Establishing goals, preparing a personal fitness plan for the future, and keeping performance records in a fitness log provides students with the data needed to complete a brief paper describing the personal fitness activities that they engaged in throughout the semester. Flexible scheduling, designed to meet any student's schedule, is utilized to fulfill the required 10 student/teacher conferences. Students are required to work out at the Center of Clayton 30 times out of 54 possible workout sessions. **(This course does not qualify for NCAA eligibility.)**

ADVANCED STRENGTH AND POWER DEVELOPMENT (9th hour course)

9th - 12th Grade

Credit - 1/4

Semester - 2

Prerequisite: Consent of the Instructor

This course has been carefully planned and constructed for the student-athlete who is interested in participating in a rigorous conditioning program that is based on progressive resistance and plyometric training principles. The strength and power training sessions that comprise the majority of the course consist of advanced weight training exercises and plyometric drills designed to produce maximum increases in strength and power. Students are provided a personalized computer-generated program booklet to be used for documenting their progress over an eight-week period. The class meets every day (Monday through Friday) from 3:15 to 4:15 p.m. beginning the first week in January and continuing through the last week in February. Students are required to secure instructor's approval for enrollment. **(This course does not qualify for NCAA eligibility.)**

PRACTICAL ARTS

Enduring Understandings/Essential Questions

- Students will understand that we live in an ever-changing “technological” society; therefore, we must be diligent, life-long learners.
 - How can we be prepared to live and work in an ever-changing “technological” society?
 - What is technological literacy and how can it be developed?
 - How has and will technology affect our personal and professional world?
- Students will understand that there are certain skills required of all people to live and function in society.
 - Why are developing the abilities to reason, analyze, solve problems, and think critically about our lives and the world around important?
 - What are important “life skills”?
 - How can we develop the ability to evaluate ideas and explore what can be done with them?
 - How can we learn to work both collaboratively and independently?
- Students will understand that all humans need to find a meaningful career.
 - How do we encourage career exploration?
 - What skills are necessary for all careers?
 - How can we develop the specific skills necessary for various careers?
- Students will understand that people need the ability to select and apply the tools of technology as they relate to personal, professional, and business decision-making.
 - How do we evaluate technology tools to determine the right tool for the right “job”?

The graduation requirement for Practical Arts is one unit.

All students will be required to take a course to meet the state personal finance requirement.

PRACTICAL ARTS - BUSINESS

Course offerings in business are designed to acquaint students with the business community and to prepare them to communicate effectively with the business world. Courses are designed to improve students' skills in areas of business and to increase their capabilities as consumers. No sequence of courses is required.

FINANCIAL COMPUTERIZED ACCOUNTING I

10th - 12th Grade

Credit - 1/2

Semester 1

This course will give the student a background in the basic accounting concepts and procedures used to operate a business. Students will learn an entire accounting cycle for a service business organized as a proprietorship and a merchandising business organized as a partnership. Using an automated accounting program, students apply concepts by recording entries into journals and preparing financial statements of a company, as well as activities using spreadsheets and simulations. This course is highly recommended for students interested in business management and/or majoring in business at the college level. **(This course does not qualify for NCAA eligibility.)**

FINANCIAL COMPUTERIZED ACCOUNTING II

10th - 12th Grade

Credit - 1/2

Semester 2

Prerequisite: Financial Computerized Accounting I

This course will give the student applications of the basic accounting concepts and procedures used to operate a business. Students will learn the accounting cycle for the merchandising of a business organized as a corporation. Using an automated accounting program, students apply concepts by recording entries into journals and preparing financial statements of a company, as well as activities using spreadsheets and simulations. This course is highly recommended for students interested in business management and/or majoring in business at the college level. **(This course does not qualify for NCAA eligibility.)**

PERSONAL FINANCE

THIS COURSE FULFILLS THE PERSONAL FINANCE GRADUATION REQUIREMENT

11th - 12th Grade

Credit - 1/2

Semester - 1 or 2

Personal Finance is a class designed for juniors and seniors interested in receiving life skills knowledge in areas such as career planning, resume writing, career exploration, interview techniques, budgeting, insurance, saving and investing. Computerized simulations are used throughout the course. Enrollment in this course does not qualify for DECA membership. **(This course does not qualify for NCAA eligibility.)**

FINANCIAL MANAGEMENT

THIS COURSE FULFILLS THE PERSONAL FINANCE GRADUATION REQUIREMENT

11th – 12th Grade

Credit – 1/2

Semester – 1 or 2

Financial Management is a class designed for juniors and seniors who want to learn more about the stock market and investments. This class has a much stronger focus on savings and investments than the Personal Finance course. Students who are interested in pursuing a career in Finance and Business should take this class. **(This course does not qualify for NCAA eligibility.)**

BUSINESS MANAGEMENT/ENTREPRENEURSHIP

11th - 12th Grade

Credit - 1/2

Semester - 1

Business Management/Entrepreneurship is a class designed for juniors and seniors interested in receiving an in-depth look at all aspects of managing a business. The curriculum will cover areas such as the operation of a small corporation, stock market, marketing, advertising, personnel, international business, strategies to motivate employees, and what it takes to be an entrepreneur. **(This course does not qualify for NCAA eligibility.)**

MARKETING

10th - 12th Grade

Credit - 1/2

Semester - 1

Marketing is a class designed for students interested in studying the exciting world of marketing. The curriculum will cover an in-depth look at marketing analysis and research, product planning, pricing, promotion, and sales. The student is responsible for working in groups to complete several projects. **(This course does not qualify for NCAA eligibility.)**

ADVERTISING

10th - 12th Grade

Credit - 1/2

Semester – 1 or 2

Advertising is a course designed for sophomores, juniors, and seniors interested in studying the creative, social, and economic aspects of advertising. It gives students the opportunity to explore an exciting career in which creative, marketing, and business management skills are required. The curriculum will cover a study of the advertising industry, the Integrated Marketing Concept, knowing the customer, creating a promotional mix, developing an advertising plan, creating advertisements, and the effects of advertising in society. Students will learn to collaborate in groups for several class projects. **(This course does not qualify for NCAA eligibility.)**

MARKETING RESEARCH

11th - 12th Grade

Credit - 1/2

Semester - 1

Prerequisite: Business Management/Entrepreneurship, Marketing, Personal Finance, Financial Management or Consent of Instructor

This independent study course is designed to allow students to work with a company/organization to complete a marketing research plan for that particular institution. Students, in conjunction with the institution, will determine a research topic, conduct marketing research, analyze the data, draw conclusions, and prepare a written report of the findings. This course meets once a week. Students who enroll in this course must be self-motivated to complete their project independently. **(This course does not qualify for NCAA eligibility.)**

SMALL BUSINESS ENTERPRISE

12th Grade

Credit- 1/2 per semester

Semester 1 and 2

Prerequisite: Business Management/Entrepreneurship, Marketing, Personal Finance, Financial Management or Consent of Instructor

The students will apply Marketing, Finance and Management skills by running the school store. Students will experience purchasing, inventory control, merchandising, point-of-sale cash register operations, customer service and accounting. Only seniors may take this class (second semester juniors will apply for an apprenticeship). Students will need to have taken a previous business class and received a grade of an A or B in the class. Students will work in the school store before school and during the lunch hours a few days a week. The curriculum that the students will complete is online and will be submitted to the teacher electronically each week. **(This course does not qualify for NCAA eligibility.)**

PRACTICAL ARTS - FAMILY AND CONSUMER SCIENCES (FCS)

Course offerings in FCS focus on the areas of culinary arts, fashion design and merchandising, housing and interior design, and child development. In each area, students will use critical thinking skills and practical skills to solve issues they could encounter in the real world. They combine intellectual knowledge with hands-on experience. Courses in the FCS program are not sequenced. Special contracts in areas of interest are also available.

CULINARY ARTS I (ProStart Year 1)

9th - 12th Grade

Credit - 1/2

Semesters 1 and/or 2

Culinary Arts 1 (ProStart Year 1) provides an opportunity for students with little or no prior foods preparation experience, but with an interest in food, to learn about the hospitality and restaurant industry. This basic course introduces students into the world of professional cooking. Training in safety and sanitation (ServSafe), kitchen basics and food service equipment, fruits and vegetables, and nutrition are taught in this beginning course. Students will focus on kitchen sanitation and safety, nutrition, and the fundamentals of breakfast foods and sandwiches. It

will be taught in the new state-of-the-art kitchen facilities. This program is a two-year, industry-based program that prepares students for careers in the restaurant and food service industry. **(This course does not qualify for NCAA eligibility.)**

CULINARY ARTS II (ProStart Year 2)

9th - 12th Grade

Credit - 1/2

Semester - 2

Prerequisite: Culinary Arts I

Culinary Arts II (ProStart Year 2) is a course that will broaden or expand students' knowledge and skills acquired in Culinary Arts I. Topics include working with breakfast foods and sandwiches, salads and garnishes, meat, poultry and seafood, and applying business math to control food service costs. We will also spend part of the semester discussing and experimenting with international foods and cultures. Food service employees today are expected to be well trained and versatile. Students need the knowledge and skills that will give them the qualifications to become a member of the food service industry. Work experiences with specially trained work site mentors are combined with a practical curriculum that imparts real-world skills and food service concepts. It will be taught in the new state-of-the-art kitchen facilities. This program is a two-year, industry-based program that prepares students for careers in the restaurant and food service industry. **(This course does not qualify for NCAA eligibility.)**

FASHION DESIGN AND MERCHANDISING

9th - 12th Grade

Credit - 1/2

Semester 1 and/or 2

Fashion Design and Merchandising is one of the fastest growing industries in the world. During the semester, students will explore fashion fundamentals, raw and manufactured materials, fabric identification, marketing and retailing. Students will learn the use and care of sewing equipment including sewing machines, sergers, and embroidery machines, the selection of patterns and fabric, and the construction techniques necessary for garment completion. Students will compile a resource notebook that features techniques learned. Students will complete 4-5 garments as projects. Students need to purchase supplies for this course. Costs will vary based on project choices. Little or no sewing experience is required. **(This course does not qualify for NCAA eligibility.)**

HOUSING AND INTERIOR DESIGN

9th - 12th Grade

Credit - 1/2

Semester - 2

Prerequisite: None

Housing and Interior Design is a class devoted to this new and popular career choice. During the semester, students will study various elements that a budding interior designer would encounter. Topics of discussion will include the history of design, color theory, architecture, floor plans and space planning, electrical design, and much more. Students will complete several smaller projects throughout their studies with a culminating design project. Studies will be influenced by field trips to design studios, trade-only showrooms, and guest speakers from the industry. **(This course does not qualify for NCAA eligibility.)**

CHILD DEVELOPMENT & EARLY CHILDHOOD EDUCATION

9th - 12th Grade

Credit - 1/2

Semester - 1

Prerequisite: None

This course prepares students to be able to work with children. Topics of study include prenatal development, childbirth, labor and delivery, and early childhood development. Each week the students will work with the professionals and young children at the Family Center to apply their learning, gaining first-hand experience and observations in the emotional, cognitive, and physical development of children. This weekly experience will count as a practicum experience for those interested in pursuing a degree in early childhood education. **(This course does not qualify for NCAA eligibility.)**

PRACTICAL ARTS

INDUSTRIAL TECHNOLOGY / PRE-ENGINEERING

Course offerings in Industrial Technology encompass the following areas: computer-aided drafting and design; architecture; engineering and engineering design; rapid prototyping; CNC operation; construction; alternative energies; electronics; aerodynamics; robotics; diagnostics; production control methods;

INTRODUCTION TO MATERIALS SCIENCE ENGINEERING

11th - 12th Grade

Credit - 1/2

Semester - 1 and/or 2

Intro to Materials Science is a great hands-on class that allows students to explore many different processes related to design and fabrication. Students will utilize a variety of power tools and machinery while exploring topics such as safety, design, welding, metal fabrication, wood fabrication, and even plastics. Projects are designed to be meaningful for our students and vary from year to year. This course is designed to teach students how to identify, analyze, select and manipulate materials according to their use and composition. Generally, students are allowed to design and build a final project of their own. **(This course does not qualify for NCAA eligibility.)**

STAGECRAFT

9th - 12th Grade

Credit - 1/2 (60 hours) or 1 (120 hours)

Semester - 1 or 2

Prerequisite: None

This course will teach the fundamentals and basic processes for technical applications for use in theatrical events such as scenic construction, plotting and reading a draft, lighting concepts and techniques, audio console operation, basic theories of sound engineering and production management. These ideas are part of a basic skill set used in practical work environments such as CAD Drafting, architecture, scenic and lighting (stage, movie, and architectural) design, construction and carpentry, project management, and safety training. **(This course does not qualify for NCAA eligibility.)**

PRACTICAL ARTS – CROSS-CURRICULAR OFFERINGS

Cross-curricular courses allow students to integrate learning from the various practical arts areas and other disciplines. The courses will be designed based on student interest and will allow for flexible scheduling: for example, Theater Technology (building and construction of props/electrical wiring).

PRACTICAL ARTS PORTFOLIO PROGRAM

9th - 12th Grade

Credit - by arrangement with instructor

Semester 1 and/or 2

Students will work with a portfolio supervisor to design a representative collection of work that demonstrates learning in the practical arts areas. The program will provide one or more of the following opportunities: to pursue an in-depth study of the student's interest in any subject area that is generated from a practical arts class that he/she has completed; to participate in vocational activities working with employers, businesses, or other career possibilities; to study an area where there is no class in the traditional curriculum; to provide an outlet for the creative, self-directed, and motivated student whose needs may not be met in the traditional classroom. **(This course does not qualify for NCAA eligibility.)**

PRACTICAL ARTS - JOURNALISM

All Journalism courses may be taken for Practical Arts credit **except** Newspaper Writing which is available for **non-conferenced English credit only**.

VIDEO PRODUCTION

9th - 12th Grade

Credit - 1/2

Semesters 1 and/or 2

Prerequisite: By application and consent of instructor

The purpose of this course is to teach students the basics of broadcast reporting, writing, and production, using digital equipment. Students will learn the basics of broadcast writing, digital camera shooting, and video editing with computer software, program production workflow, audio, lighting tools and design, studio and remote shooting, props, set dressing and scenery, production staging and interacting with talent, directing, video switchers and special effects generation, video editing, time, space, composition and language, and distribution to audience. Students will also learn to integrate their reporting skills into projects that demonstrate their abilities to produce news in both field and studio environments. Students will produce a variety of projects including news, feature, sports, commercials, films, music videos, to name a few. As the year progresses, students will demonstrate their ability to utilize various production techniques to produce a news program under deadline conditions as well as contribute to an online news website. They will learn how to shape a news broadcast from a variety of positions on a news team. The students will work on the production of the daily and bi-weekly shows. **(This course does not qualify for NCAA eligibility.)**

YEARBOOK PRODUCTION

9th - 12th Grade

Credit - 1

Full Year

Prerequisite: By application and consent of instructor

Yearbook Production produces CLAMO, the school yearbook, and meets on Thursday (general staff) and Tuesday (editors only) during 0-hour, as well as some lunch periods. The course encourages a hands-on approach to a variety of topics including news, feature, sports and alternative copy writing, as well as computer skills, page design skills, business practices, and photography. Students will engage in classroom group activities and written response and meet individually with the teacher to conference their writing. Enrollment in the class is by application only. Interested students will pick up an application from the instructor in January. Staff will be selected in time to complete the enrollment process in February and March. Selection will be based on completion of the application, an essay, writing samples, and teacher recommendation. Students interested in photography for the year, see Photojournalism for Publication. **(This course does not qualify for NCAA eligibility.)**

YEARBOOK EDITORIAL LEADERSHIP

10th - 12th Grade

Credit - 1

Full Year

Prerequisite: At least one year of Yearbook - Must be part of Editorial Staff and consent of instructor.

Students enrolled in Yearbook Editorial Leadership are in charge of all editorial aspects of producing the CLAMO Yearbook. They will meet 0-hour two days a week, plus lab time to be met during lunch periods. They will make all ethical and content decisions, as well as learn two complicated software programs, Adobe InDesign and Adobe Photoshop. They will study and understand the legal and ethical dimensions of journalism, design principles to be used in designing and laying out pages, and coaching techniques to use with younger writers. They will learn how to handle all aspects of copy-editing. They will be responsible for managing the business and advertising section of the yearbook. They will study the work of other scholastic and professional newspapers in depth. They will also develop leadership skills so they will become capable of passing on their vision for the book to the younger staff members. Enrollment in the class is by application only. Interested students already enrolled in the Yearbook class will pick up an editorial application from the instructor in January and selection will be made in time for class registration in February. **(This course does not qualify for NCAA eligibility.)**

PHOTOJOURNALISM FOR PUBLICATION

10th - 12th Grade

Credit - 1

Semesters 1 and 2

Prerequisite: Photography I

Photojournalism is the art of telling the story of the human experience. This particular course will focus on telling the stories of our community through photographs. Students will work as photographers for both the CHS Globe newspaper and CLAMO yearbook, as well as Globe Online. Assignments may consist of photographing sports, activities, news events, and any other subjects chosen by the editorial staffs or advisors. Photojournalism students will also learn to write captions, compose photo essays, learn to use digital editing software, and study the history and significance of photojournalism. Photojournalism will meet as a 0-hour with additional weekly meetings during the student's lunch hour; date and time of zero-hour to be determined by the instructor. **(This course does not qualify for NCAA eligibility.)**

NEWSPAPER WRITING

9th - 12th Grade

Credit - 1

Full Year

Prerequisite: By application and consent of instructor (Available for NON-CONFERENCED ENGLISH CREDIT ONLY - NOT AVAILABLE FOR PRACTICAL ARTS CREDIT.)

Newspaper Writing is the class for reporters for the Globe, the school newspaper, and the Globe online, an interactive, web-based publication that updates regularly. The staff meets Tuesday, 0-hour, plus 2 hours lab time to be met every other day during lunch periods. The course encourages a hands-on approach to a variety of topics including news, feature, sports and editorial writing, as well as being introduced to journalism style, history, law and ethics. Students will engage in classroom group activities and written responses in addition to quizzes and tests over various aspects of journalism. All students will write a minimum of nine articles intended for the print publication and nine shorter web articles over the year, in addition to other class assignments. Enrollment in the class is by application only. Interested students will pick up an application from the instructor or from the English office in January. Staff will be selected in time to complete the enrollment process in February. Selection will be based on completion of the application, a writing sample, and teacher recommendation. Students interested in being a newspaper photographer should sign up for Photojournalism for Publication and those interested in being artists should see the instructor about signing up for the independent study options for that work. Those interested in working on the construction end of the website should see the instructor about an independent study contract. We also have limited offerings for an Independent Study Newspaper Business Management team, who handle all advertising, database management and business relations. **A workshop at the end of the summer is mandatory for all staff members.**

NEWSPAPER EDITORIAL LEADERSHIP

10th - 12th Grade

Credit - 1

Full Year

Prerequisite: At least one year of Newspaper Writing - Must be part of Editorial Staff and consent of instructor.

Students enrolled in Newspaper Editorial Leadership are in charge of all editorial aspects of producing the Globe and the Globe Online. They will meet 0-hour two days a week (Tuesday and Friday) plus 2 hours lab time to be met every other day during lunch periods. They will make all ethical and content decisions as well as learn two complicated software programs, InDesign and Photoshop. They will study and understand the legal and ethical dimensions of journalism, design principles to be used in designing and laying out pages, and coaching techniques to use with younger writers. They will learn how to handle all aspects of copy-editing. They will be responsible for setting up a budget for the paper, and making sure that fundraising is adequate to cover that budget or make adjustments in the paper to reduce the cost. In addition, they will continue to develop as reporters and/or photographers, taking the more challenging assignments on the paper. They will study the work of other scholastic and professional newspapers in greater depth than the newspaper writing class. They will also develop leadership skills so they will become capable of passing on their vision for the paper to the younger staff members. Enrollment in the class is by application only. Interested students already enrolled in the Newspaper Writing class will pick up an editorial application from the instructor in January and selection will be made in time for class registration in February. **(This course does not qualify for NCAA eligibility.)**

IS NEWSPAPER ONLINE

10th – 12th Grade

Credit – 1

Full Year

Prerequisite: By teacher recommendation only

Students enrolled in IS Newspaper Online will work on programming and coding for chsglobe.com. The course requires students to work independently to design, update and format the Globe website. Prior knowledge of writing code and web design is important for registration for this course. In addition to the website, students will also manage the chsglobe twitter and facebook accounts. **(This course does not qualify for NCAA eligibility.)**

PROJECT LEAD THE WAY (PLTW)

(POE) PRINCIPLES OF ENGINEERING - PROJECT LEAD THE WAY

9th - 12th Grade
Credit - 1
Full Year

Math Requirement: concurrent enrollment in College-Prep Geometry, Geometry or above.

This course provides an in-depth view of engineering and engineering technology. Students develop problem-solving skills by tackling real-world engineering problems. Through theory and practical hands-on experiences, students address the emerging social and political consequences of technological change. POE is a part of Project Lead the Way, a multi-year, multi-course curriculum designed to support those students interested in the fields of physics, engineering and technology. Upon successful completion of this course and a college exam, students are eligible to receive three hours of articulated college credit in engineering. **(This course does not qualify for NCAA eligibility.)**

STUDENTS WILL RECEIVE PRACTICAL ARTS CREDIT FOR THIS CLASS.

(IED) INTRODUCTION TO ENGINEERING DESIGN - PROJECT LEAD THE WAY

9th - 12th Grade
Credit - 1
Full Year

Math Requirement: concurrent enrollment in College-Prep Geometry, Geometry or above.

Intro to Engineering Design is a PLTW foundation course for students interested in engineering and design. Students will learn the various aspects of design and utilize state-of-the art CAD software and Rapid Prototyping equipment (3D printing) to apply problem-solving skills on a variety of real-world engineering problems. Students may at times be working directly with professional engineers, learning the skills and design knowledge necessary for a career in engineering. IED is part of Project Lead the Way, a multi-year, multi-course curriculum designed to support those students interested in the fields of physics, engineering and technology. Upon successful completion of this course and a college exam, students are eligible to receive three hours of articulated college credit in engineering. **(This course does not qualify for NCAA eligibility.)**

STUDENTS WILL RECEIVE PRACTICAL ARTS CREDIT FOR THIS CLASS.

(DE) DIGITAL ELECTRONICS - PROJECT LEAD THE WAY

9th - 12th grade

Credit - 1

Full Year

Math Requirement: concurrent enrollment in College-Prep Geometry, Geometry or above.

Digital Electronics is a PLTW specialty course of study in applied digital logic. Students will be introduced to digital circuits found in video games, watches, calculators, digital cameras and thousands of other devices. Students will study the application of digital logic and how digital devices are used to control automated equipment. The use of digital circuitry is present in virtually all aspects of our lives and its use is increasing rapidly. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices. DE is part of Project Lead the Way, a multi-year, multi-course curriculum designed to support those students interested in the fields of physics, engineering and technology. Upon successful completion of this course and a college exam, students are eligible to receive three hours of articulated college credit in engineering. **(This course does not qualify for NCAA eligibility.)**

STUDENTS WILL RECEIVE PRACTICAL ARTS CREDIT FOR THIS CLASS.

(CEA) CIVIL ENGINEERING AND ARCHITECTURE - PROJECT LEAD THE WAY

9th - 12th Grade

Credit - 1

Full Year

Prerequisites: One foundation PLTW course or Teacher approval

Civil Engineering and Architecture is a PLTW specialty course where students will be presented with the historical influences affecting residential architecture over the years, and with the major considerations in the development of home designs. Students will learn how to read, develop, design, and draw architectural floor plans and elevations as related to four basic house designs using CAD software. During the second semester, students will become familiar with various building materials, construction methods, cost estimation and presentation/marketing of architectural designs. Students will use current professional software to develop and present completed designs and projects. CEA is part of Project Lead the Way, a multi-year, multi-course curriculum designed to support those students interested in the fields of physics, engineering and technology. Upon successful completion of this course and a college exam, students are eligible to receive three hours of articulated college credit in engineering. **(This course does not qualify for NCAA eligibility.)**

STUDENTS WILL RECEIVE PRACTICAL ARTS CREDIT FOR THIS CLASS.

(EDD) ENGINEERING DESIGN AND DEVELOPMENT - PROJECT LEAD THE WAY

11th -12th Grade

Credit - 1

Full Year

Prerequisites: One foundation PLTW course and one PLTW specialty course

This course is the Project Lead the Way capstone course where students will use knowledge gained from previous PLTW courses to solve a real-world problem using the design process. Students will conduct research, identifying a need or a problem, and design or improve a product to meet the need. Students will conduct research, go through the design process, prototype, and explore the patent process. Class may be taken as an independent study with teacher approval. **(This course does not qualify for NCAA eligibility.)**

STUDENTS WILL RECEIVE PRACTICAL ARTS CREDIT FOR THIS CLASS.

(CSE) COMPUTER SCIENCE & SOFTWARE ENGINEERING – PROJECT LEAD THE WAY

9th – 12th Grade

Credit – 1

Full Year

Math Requirement: concurrent enrollment in College-Prep Geometry, Geometry or above

The goal of this course is to develop computational thinking, to generate excitement about the field of computing, and to introduce computational tools that foster creativity. This course also seeks to build students' awareness of the tremendous demand for computer specialists and for professionals in all fields who have computational skills. Each unit will focus on more or more computationally intensive career paths. CSE helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, robotics, and simulation. **(This course does not qualify for NCAA eligibility.)**

STUDENTS WILL RECEIVE PRACTICAL ARTS CREDIT FOR THIS CLASS.

PRINCIPLES OF BIOMEDICAL SCIENCES – PROJECT LEAD THE WAY (PLTW)

9th – 12th Grade

Credit – 1

Full Year

The death of a fictional character, Anna Garcia is the thread that ties all of the units of this course together. In reading Mrs. Garcia's autopsy report, students discover what contributed to her death. Students study metabolism as they discover that Mrs. Garcia suffered from diabetes. Through this study, carbohydrates, proteins and calorimetry will be explored. As they learn about her sickle-cell disease, students study genetics and DNA. Models and computers will be used to simulate changes in the DNA and proteins. Mrs. Garcia also had hypercholesterolemia. A study of this will involve dissection of sheep hearts and the use of computers to analyze and experiment with student blood pressure, heart rate and EKG. Students will also learn to analyze abnormal EKGs. When it is discovered that the patient also had an infectious disease, students learn about the differences between bacterial infections and viruses. Gram staining will be done and students will learn how to choose an antibiotic based on the results. The final project for the class will be to write a grant proposal on a topic of the student's choice, using what was learned about research and writing science summaries. The proposals will be shared through a PowerPoint presentation. This is the introductory course in a potential four-course program that ends with an on-site research assignment with a health care professional.

STUDENTS WILL RECEIVE ELECTIVE CREDIT FOR THIS CLASS.

HUMAN BODY SYSTEMS – PROJECT LEAD THE WAY (PLTW)

10th – 12th Grade

Credit – 1

Full Year

Prerequisite: PLTW Principles of Biomedical Science, Honors Biology or instructor approval.

Students will engage in the study of the processes, structures, and interactions of the human body systems. Important concepts in the course include: communication, transport of substances, locomotion, metabolic processes, defense, and protection. The central theme is how the body systems work together to maintain homeostasis and good health. The systems are studied as “parts of a whole,” working together to keep the amazing human machine functioning at an optimal level. Students design experiments, investigate the structures and functions of body systems, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respiratory operation. Students work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries. This course will be taught concurrently with Human Anatomy and Physiology. Science credit is not offered for this class. Students desiring science credit should enroll in Human Anatomy and Physiology. Please note that in order to receive science credit an extra project is required. This course does not have an extended lab period.

This is the second course in a potential four-course program that ends with an on-site research assignment with a health care professional.

STUDENTS WILL RECEIVE ELECTIVE CREDIT FOR THIS CLASS.

MEDICAL INTERVENTIONS – PROJECT LEAD THE WAY (PLTW)

11th – 12th Grade

Credit – 1

Full Year

Prerequisite: PLTW Principles of Biomedical Science, PLTW Human Body Systems, Honors Biology or instructor approval.

Students investigate a variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. The course is a “How-To” manual for maintaining overall health and homeostasis in the body as students explore how to prevent and fight infection; how to screen and evaluate the code in human DNA; how to prevent, diagnose and treat cancer; and how to prevail when the organs of the body begin to fail. These scenarios expose students to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Each family case scenario introduces multiple types of interventions and reinforces concepts learned in the previous two courses, as well as presenting new content. Interventions may range from simple diagnostic tests to treatment of complex diseases and disorders. These interventions are showcased across generations of a family and provide a look at the past, present and future of biomedical sciences. Lifestyle choices and preventive measures are emphasized throughout the course as are the important roles scientific thinking and engineering design play in the development of interventions of the future. This course does not have an extended lab period.

This is the third course in a potential four-course program that ends with an on-site research assignment with a health care professional. **(This course does not qualify for NCAA eligibility.)**

STUDENTS WILL RECEIVE ELECTIVE CREDIT FOR THIS CLASS.

BIOMEDICAL INNOVATION – PROJECT LEAD THE WAY (PLTW)

12th Grade

Credit – 1

Full Year

Prerequisite: PLTW Principles of Biomedical Science

Working through progressively challenging, open-ended problems that address topics such as clinical medicine, physiology, biomedical engineering, and public health, students will explore innovative solutions for the health challenges of the 21st century. They will have the opportunity to work on independent projects with a mentor or advisor from a university, hospital, research institution, or the biomedical industry. Throughout the course, students will be expected to present their work to an audience of STEM professionals. The course is designed for 12th grade students.

This is the fourth course in a potential four-course program that ends with an on-site research assignment with a health care professional.

STUDENTS WILL RECEIVE ELECTIVE CREDIT FOR THIS CLASS.

SCIENCE SEQUENCE

9th	Foundations of Physics	Freshman Physics	Honors Freshman Physics
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10th	Foundations of Chemistry	Chemistry	Honors Chemistry
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11th	Foundations of Biology	Biology	Honors Biology
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11th – 12th	Additional Junior and Senior Course Options		
	AP Biology (Full Year) AP Chemistry (Full Year) AP Environmental Science (Full Year) AP Physics I (Full Year) AP Physics II (Full Year) Anatomy and Physiology (Full Year) Astronomy (One Semester) Current Issues in Science (One Semester) Evolution (One Semester) Forensic Science (One Semester) Advanced Forensic Science (One Semester) Physics (Full Year) Plant Research (One Semester) Science Career Seminar (One Semester)		

PROJECT LEAD THE WAY			
(ELECTIVE CREDIT – NOT FOR SCIENCE CREDIT) – See pages 63 - 65			
Principles of Biomedical Science (Full Year - Grades 9-12) Human Body Systems (Full Year - Grades 10-12) Medical Interventions (Full Year - Grades 11-12) Biomedical Innovation (Full Year - Grade 12)			

Clayton Science Enduring Understandings

Students in the Clayton School District will understand the following big ideas presented throughout their K-12 science classes:

1. The systematic nature of all things

All things in nature are made up of interacting and interdependent parts. Everything is a part in a larger system.

2. The interaction between energy and matter that flow through systems

All things in nature interact with and are affected by energy. The total amount of energy and matter in the universe remains constant.

3. The nature of stability, change and equilibrium

All things in nature change over time in order to reach a balance (equilibrium), however, systems can show stability over long periods of time.

4. The relationship between structure and function

The way things are put together determines what they can do. The way a system works depends on what it is made of and on the shapes and forms of its parts.

5. The creation of models to represent abstract ideas and phenomena

In order to understand how systems function and the patterns observed in nature, people develop models that describe how nature works. Many models are quantified using mathematics.

6. The process of scientific reasoning and the evaluation of ideas

Advances in science start with observations that lead to questions that are answered by experimentation and modeling. Measurements of observations lead to a mathematical treatment of data.

7. The interaction between science and society

As a result of scientific pursuits, human beings have developed an understanding of nature that has affected all people's lives in many ways.

The state graduation requirement for science is three units, but most Clayton High School students enroll in science courses all four years. Science courses typically alternate between a standard 47 minute period and an extended “lab” period that meets for 74 minutes. All courses are laboratory oriented and include investigations that give students experience in collecting, organizing, graphically representing, analyzing, and interpreting data. At its core, the CHS science experience is designed to help students understand science as a process of evidence-based discovery that facilitates the understanding of natural phenomena.

Placement recommendations are tailored to students needs and abilities so every student is challenged every year. To this end, a wide variety of science experiences is available. Freshmen are recommended for Foundations of Physics, Freshman Physics, or Honors Freshman Physics based on aptitude in 8th grade science and math, performance on a reasoning test, and scores on the EXPLORE test. Sophomores are recommended for Foundations of Chemistry, Chemistry, or Honors Chemistry based on performance and aptitude in their physics course. Juniors are recommended for Foundations of Biology, Biology, Honors Biology, or AP Biology based on performance and aptitude in their chemistry course. Juniors often take a science elective concurrently with their Biology course. Students who have completed Honors Chemistry may be recommended to take both AP Biology and AP Chemistry as a combined, three-period block during their junior year. Seniors are recommended for science electives and/or AP science courses based on performance and aptitude displayed during their junior year. Students who do not meet specific course prerequisites may occasionally be enrolled in a class with the consent of the instructor.

FOUNDATIONS OF PHYSICS

9th Grade
Credit - 1
Full Year

Foundations of Physics is an adapted version of Freshman Physics for a select group of students who will benefit from a modified pace and depth of content. The course is designed to build the science and math skills of students in preparation for the rest of their high school experience. Students will gain conceptual understanding of motion, forces, energy, electricity, and waves. Students develop scientific models to describe the physical world by analyzing the results of laboratory experiments. The skills of experimental design, data collection, and graphical analysis will be emphasized. Students will demonstrate their understanding verbally, diagrammatically, graphically and algebraically. **Enrollment requires departmental approval. (This course does not qualify for NCAA eligibility.)**

FRESHMAN PHYSICS

9th Grade
Credit - 1
Full Year

Freshman Physics is an introductory course to the formal study of the physical sciences. Students will develop conceptual understanding of electricity, motion, forces, energy, and waves. Students will learn to build scientific models to describe the physical world by analyzing the results of laboratory experiments. The skills of experimental design, data collection and graphical analysis will be emphasized. Students will express these models verbally, diagrammatically, graphically and algebraically. Students will build a laboratory portfolio, which includes results of each of the major investigations throughout the year.

HONORS FRESHMAN PHYSICS

9th Grade
Credit - 1
Full Year

Honors Freshman Physics is an introductory course to a formal study of the physical sciences, with emphasis on mathematical problem solving. Students will develop major concepts in motion, forces, energy, electricity, and wave motion. Students will learn to build scientific models to describe the physical world by analyzing the results of laboratory experiments. The skills of experimental design, data collection, and graphical analysis will be emphasized, allowing students to express these models in words, in diagrams, graphically and algebraically. This course moves at an accelerated pace and it requires excellent reasoning skills and well-developed work and study habits. Fluency in the application of algebra is essential. Students will build a laboratory portfolio, which includes results of each of the major investigations throughout the year. **Enrollment requires departmental approval.**

FOUNDATIONS OF CHEMISTRY

10th Grade
Credit - 1
Full Year

This course will address questions such as: What is the nature of matter? How does matter change? How do changes in the world around us affect us? What is the nature of life? What is inside us? How do humans interact with the natural world? Students will investigate these questions and others through a variety of “hands-on” and written experiences as they explore how science is relevant to daily life. **Enrollment requires departmental approval. (This course does not qualify for NCAA eligibility.)**

CHEMISTRY

10th Grade
Credit - 1
Full Year

This course introduces important concepts of chemistry while applying these concepts to the students' everyday lives and experiences. Topics addressed include basic problem solving, scientific measurement, atomic structure, the periodic table, chemical formula writing, chemical reactions, states of matter, chemical bonding, thermochemistry, acids and bases, and nuclear chemistry. Activities will include reading, writing, discussion, laboratory activities, laboratory reports and student projects. Students will frequently work together in teams. Basic algebra skills are required.

HONORS CHEMISTRY

10th Grade
Credit - 1
Full Year

The models and theories of chemistry are developed in this course. Considerable emphasis is placed on the student's ability to interpret data, solve problems, and use higher-order thinking skills. The core topics include models for atoms, chemical reactions, kinetic molecular theory, thermochemistry, chemical bonding, rates of reactions, equilibrium, acids and bases, and electrochemistry. The course will include reading, lecture/discussion, laboratory activities, and problem solving. This course is designed for students who have demonstrated success in honors mathematics and science courses. Laboratory reports will be required and homework assignments are given daily. Each student needs a calculator. A college level text is used. **Enrollment requires departmental approval.**

FOUNDATIONS OF BIOLOGY

11th - 12th Grade

Credit - 1

Full Year

This course emphasizes an inquiry-based exploration of living organisms; how they function, interact, and evolve. Students will develop and conduct experiments, collect data, and analyze data throughout the year. This exploration allows students to ask questions about the world around them, work on problem solving strategies, think critically, and develop their understanding of science as a process. The main goal of this course is for students to explain phenomena encountered in their everyday lives and to develop a thoughtful and well-reasoned understanding of the living world. **Enrollment requires departmental approval. (This course does not qualify for NCAA eligibility.)**

BIOLOGY

11th - 12th Grade

Credit - 1

Full Year

Biology takes a cellular and molecular approach to understanding the unity and diversity of the living world. The course begins by investigating the nature of chemical reactions in living systems and the biomolecules involved. This serves as a foundation for the exploration of cell structure and function, energy conversions, the cell cycle, genetics, gene expression, evolution, and culminates in understanding the flow of energy and cycling of matter in organisms and ecosystems. Students will design and implement experiments, gather data, and perform data analysis to deepen their conceptual understandings of course content.

HONORS BIOLOGY

11th - 12th Grade

Credit - 1

Full Year

Honors Biology takes a cellular and molecular approach in exploring the living world. Twelve core themes are interwoven throughout the course to build a holistic understanding of the essential elements of modern biology. These themes include: biochemistry, metabolism, cellular transport, cell structure & function, energy flow through living systems, transport systems of life, cell reproduction, gene expression, genetics, ecology, evolution, and biotechnology. Learning of content material is enriched through inquiry-based experimental design, data collection, and analysis. Honors Biology is geared for students who have demonstrated solid scientific reasoning skills, exceptional work and study habits, and a record of academic excellence in previous science courses. **Enrollment requires departmental approval.**

AP BIOLOGY

11th - 12th Grade

Credit - 1

Full Year

Prerequisite: Chemistry, Honors Biology, or departmental approval.

Advanced Placement Biology is an in-depth study of living systems. Investigations facilitate the understanding of science as a process by incorporating careful observation, question posing, hypothesis formulation, experimental design, and the implementation of experiments under controlled conditions. Students will deepen their higher cognitive skills by analyzing and synthesizing experimental data and discussing contemporary biological issues. Biological concepts and principles will be taught at a university level. Emphasis is placed on biochemistry, physiology, evolution, ecology, genetics, and cytology. Students are expected to take the AP Biology exam in May.

AP CHEMISTRY

11th - 12th Grade

Credit - 1

Full Year

Prerequisite: Honors Chemistry or departmental approval.

This course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. Students will experience sufficient depth and breadth of understanding of chemical fundamentals, competence in dealing with chemical calculations, and experience in the nature and variety of laboratory experiments equivalent to that of a typical college course. Topics such as the atomic and molecular structure of matter, kinetic theory of gases, chemical equilibrium, chemical kinetics, electrochemistry, and basic principles of thermodynamics are emphasized. A substantial portion of class time is spent on understanding and applying these concepts through chemical problem solving. Students develop the ability to think clearly and to express their ideas in writing with clarity and logic. In addition, the behavior of chemical systems is investigated in the laboratory. A laboratory portfolio is developed, and students submit a report for each experiment. Each student is expected to take the AP Chemistry exam in May.

AP ENVIRONMENTAL SCIENCE

11th - 12th Grade

Credit - 1

Full Year (Unlike other full-year science courses, AP Environmental Science does not have an extended lab period.)

Prerequisite: Chemistry, Honors Biology or departmental approval.

In AP Environmental Science students will investigate the nature of earth systems (ecology, geology, climate, etc.), historical and current human impacts on earth systems, ways to decrease human impacts on earth systems, ongoing efforts to preserve biodiversity and repair past damage, and potential options for leading a more sustainable way of life. The lab experience includes hypothesis generation, experimental design and implementation, the process of peer review, graphical organization and statistical analysis of data, and the use of mathematical models to represent natural phenomena. Higher order cognitive skills will be grown through the use of science as a process to gain evidence-based understanding of nature, identification of logical fallacies, critical examination of commonly held assumptions about the environment, and scrutinizing the relationship between science and public policy. Students should be skilled in Algebra, capable of comprehending a college-level science text, and willing to devote study time to APES on a daily basis. Students are expected to take the AP Environmental Science exam in May.

AP PHYSICS I

11th – 12th Grade

Credit – 1

Full Year

Prerequisite: Excellent skills in Algebra, at least concurrent enrollment in Geometry, or by departmental approval

AP Physics I is a rigorous treatment of the classical physics areas of mechanics, mechanical waves, and introductory electric circuits. It is the equivalent of a typical first semester, algebra-based college physics course. Physical models will be developed through laboratory investigation in the areas of one and two-dimensional kinematics, Newton's laws, energy, circular motion, gravitation, linear momentum, rotational motion, oscillations, mechanical waves, sound, and introductory electric circuits. Students will submit lab reports for each laboratory investigation. Students will be required to solve problems mathematically, with extensive use of proportional and symbolic reasoning. The ability to translate between multiple representations of physical models will be emphasized. The course is designed to provide excellent preparation for students considering the study of science, medicine, or engineering in college. Students who successfully complete the course will be well-prepared for, and expected to take, the College Board Advanced Placement Physics I examination in May. Except when recommended by the instructor, students should have successfully completed Freshman Physics or Honors Freshman Physics prior to enrollment in AP Physics I.

AP PHYSICS II

11th – 12th Grade

Credit – 1

Full Year

Prerequisite: Algebra, Geometry, Algebra II and Trigonometry. Students who take this class must be concurrently enrolled in, or have previously completed, AP Physics I, or by department approval

AP Physics II is a rigorous treatment of fluid statics and dynamics, thermodynamics with kinetic theory, electrostatics, electric circuits, magnetic fields, electromagnetism, geometric and physical optics, and topics in modern physics. It is the equivalent of a typical second semester, algebra-based, college physics course. Physical models in the areas listed above will be developed through laboratory investigation. Students will submit lab reports for each laboratory investigation. Students will be required to solve problems mathematically, with extensive use of proportional and symbolic reasoning. The ability to translate between multiple representations of physical models will be emphasized. The course is designed to provide excellent preparation for students considering the study of science, medicine, or engineering in college. Students who successfully complete the course will be well-prepared for, and expected to take, the College Board Advanced Placement Physics II examination in May.

ANATOMY AND PHYSIOLOGY

11th - 12th Grade

Credit - 1

One Year (Unlike other full-year science courses, Anatomy & Physiology does not have an extended lab period.)

Prerequisite: Project Lead the Way Principles of Biomedical Science, Honors Biology or departmental approval.

Anatomy and Physiology is geared to upperclassmen preparing for study in health-related areas. Students will engage in the study of the processes, structures, and interactions of human body systems. Important concepts in the course include: communication, transport of substances, locomotion, metabolic processes, defense, and protection. The central theme is how body systems work together to maintain homeostasis and good health. The systems are studied as “parts of a whole,” working together to keep the amazing human machine functioning at an optimal level. Students design experiments, investigate the structures and functions of body systems, and use data acquisition software to monitor selected body functions. Students work through interesting real-world cases and often play the role of biomedical professionals in solving medical mysteries. Students are expected to complete and present a mastery project each semester.

ASTRONOMY

11th - 12th Grade

Credit - 1/2

One Semester

Prerequisite: Freshman Physics and Chemistry, or departmental approval.

This one-semester course for juniors and seniors will capitalize on the students' inherent interest in the limitless universe that surrounds them. Study of the physical nature of objects in the universe and methods used by astronomers to understand them will be emphasized. Topics are selected from basic laws of nature, the Solar System, stars, nebulae, galaxies, and cosmology. Observations will be made both by the individual student (motion of Earth, Sun, and phases of moon) and during group outings at night with a telescope. This course meets one period per day with additional laboratory/field experiences planned outside of the regular school schedule.

CURRENT ISSUES IN SCIENCE

11th - 12th Grade

Credit - 1/2

One Semester

Prerequisite: Biology, concurrent enrollment in Biology, or departmental approval

Students in this course will explore scientific issues that have the potential for both immediate and long-term effects on their lives. Topics may include issues such as nuclear energy, alternative fuels, stem-cell research, genetic engineering, ozone depletion, global climate change, pollution, and more. Students will leave the course with an increased understanding of how science is relevant to their lives as they become the decision makers of the future. **(This course does not qualify for NCAA eligibility.)**

EVOLUTION

11th - 12th Grade

Credit - 1/2

One Semester

Prerequisite: Biology, concurrent enrollment in Biology, or departmental approval.

Evolution explores the nature of change on universal, planetary, and population levels. The broad theme of the class is that the laws of nature have shaped the development of the cosmos, our planet, and the organisms that inhabit it. To this end, we will develop an evidence-based understanding of the Big Bang, formation of our solar system, geological processes, relative and absolute dating, the fossil record, plate tectonics, abiogenesis, population genetics, and cladistics. Students will also gain insight about the life history of Earth as we explore the succession of flora and fauna during the Paleozoic, Mesozoic, and Cenozoic eras.

FORENSIC SCIENCE

11th - 12th Grade

Credit - 1/2

One Semester

Forensic science is the application of science to legal situations. Students will formulate and critically examine problems, and investigate probable solutions. They will collect and scientifically evaluate data, draw conclusions based on evidence, apply data to authentic situations, and communicate the results of the work. The topics used to teach these skills include: crime scene investigations, evidence collection, DNA, physics properties of glass, soil and sand, paper and ink analysis, handwriting analysis, forensic anthropology, odontology, prints including those from fingers, lips, shoes, and tires, and trace evidence including hair, fibers, and body fluids including blood typing, genetics, and splatter patterns. This course gives students the opportunity to apply the concepts and skills learned in physics, chemistry, and biology to the real-life problems of crime scene investigation. CSI fans take note! **(This course does not qualify for NCAA eligibility.)**

ADVANCED FORENSIC SCIENCE

11th - 12th Grade

Credit - 1/2

One Semester

Prerequisite: Forensic Science

Students in Advanced Forensic Science will process more complicated evidence than in the first level course. When studying arson, students will learn how to determine if a fire was accidental or intentional, what type of accelerant was used and how to identify common motives of arsonists. When exploring toxicology, students will learn about drugs, poisons and alcohol and how they affect the body. DNA, how it works and how it is used in the legal system will be addressed. Additionally, students will learn about eyewitness testimony and polygraphs as they study the criminal mind in forensic psychology. Cases solved will be complex, involving subtle clues with many twists. **(This course does not qualify for NCAA eligibility.)**

PHYSICS

11th - 12th Grade

Credit - 1

Full Year

Prerequisite: Chemistry and Biology or departmental approval; facility with Algebra and Trigonometry

This course is designed as an introduction to the study of physics. It is appropriate for students who have never studied physics. It is also intended for students who have completed Freshman Physics and would like to extend their study of physics to include a broader range of topics with slightly greater emphasis on mathematical problem solving. The fundamental concepts of physics are emphasized with topics chosen from among the following: mechanics, wave motion, light, electricity, and magnetism. The course is laboratory-based as students will build physics concepts through laboratory investigations. Students will be expected to gather and interpret data, analyze experimental results and draw conclusions. Emphasis will be placed on the graphical analysis of experimental data. Experimental results will be documented in laboratory reports and organized as a laboratory portfolio. A scientific calculator capable of performing scientific notations and trigonometric functions is required. Although this course is taught at an introductory level, it is an excellent follow-up to Freshman Physics and includes many new topics and previously encountered topics in greater depth.

PLANT RESEARCH

11th – 12th Grade

Credit –1/2

One Semester

Prerequisite: Biology, Concurrent Enrollment in Biology or departmental approval.

Students will examine the fundamentals of plant science, including plant anatomy and physiology. Topics such as plant cells, tissues, organs, evolution, germination, growth, photosynthesis, transpiration, cell signaling, cellular respiration, and pollination will be explored as students heighten their understanding of plants and their role in the future of our species. Learning will be tied to topical research on how emerging plant science can contribute to sustainable production of food and bio-fuels for our future.

SCIENCE CAREER SEMINAR

11th - 12th Grade

Credit - 1/4

One Semester

Prerequisite: Biology, Concurrent Enrollment in Biology or departmental approval.

Designed for students who wish to explore careers in science, this semester course will meet two times per week and will focus on interaction with professionals working in various scientific fields. Students interested in obtaining firsthand information about life as a scientist, potential networking opportunities, and career options in science should consider enrolling. **(This course does not qualify for NCAA eligibility.)**

SOCIAL STUDIES

ENDURING UNDERSTANDINGS

AND

ESSENTIAL QUESTIONS

- Humans search for meaning.
 - What is truth and how do you know?
 - Is truth something objective and constant or subjective and based upon place, culture, and time?

- Humans are social beings.
 - What constitutes a social system?
 - What is the difference between transformation and radical change?
 - What factors lead to unity? What factors lead to disorder?
 - How are the conclusions reached by social scientists affected by race, class, gender, and ethnicity?
 - Who governs?
 - How do societies resolve social conflicts?

- The past affects humans; humans affect the future.
 - What is the story of humankind?
 - How does the past relate to the present?
 - What makes an event or person important?
 - Do the times shape the individual or the individual shape the times?
 - To what extent do individuals shape their lives?
 - What story is mine alone?

- Humans act and react.
 - Why do humans behave the way they do?

- Humans' relationship with the land affects their development.
 - How has geography affected human, social, political, economic, and cultural development?
 - How have humans affected their physical environment?

- Both continuity and change are aspects of human development.
 - What is progress? Have humans progressed?
 - How has technology affected human and cultural development?

- Humans have needs.
 - How do societies resolve the problem of scarcity?
 - Why do some nation-states have a high standard of living while others have a low standard of living?

SOCIAL STUDIES

To have some measure of control over their lives, students must have an understanding of their own natures and the nature of those forces that affect them. This understanding can best be obtained through knowledge of the social sciences. The goals of the social studies program are to develop in students the ability to think critically, to assume a positive role in a democratic society, and to understand nations' interdependence. The courses are not designed to teach facts as much as they are to teach students how to study and think and how to apply what they learn from selected content to contemporary human affairs. Courses encourage students to use knowledge rather than simply digesting the recorded events of humanity's progression through the ages. To concentrate on process, the department focuses attention on a few carefully selected periods of history and social science studies rather than attempting to survey all of humanity's past.

To use knowledge effectively, students must develop a variety of skills and abilities. Social studies encourages this development. To obtain knowledge, students need skills in locating and evaluating sources of information through observing, listening, and reading. They must also be able to express their views in oral and written form. Students should develop the will and the ability to work both independently and with organized groups. Finally, the study of the social sciences, the arts, and humanities is viewed as part of a life-long process of learning.

The graduation requirement in social studies is three units. One unit is American history, which is incorporated in the 10th grade course World and U.S. History II. Another 1/2 credit must be American Government. The department recommends that college-bound students take four units of credit.

Required sequence of courses:

- Grade 9 World and U.S. History I
 *Topics in World and U.S. History I
- Grade 10 World and U.S. History II
 *Topics in World and U.S. History II
- Grade 11 - 12 Required: American Government
 *Topics in American Government

(The electives below are offered on a rotating basis. Please check the most updated Program of Studies for current selection.)

- Electives: African American History I
- African American History II
- American Civil War & the Frontier in American History
(not offered in 2015-2016)
- American Military Experience in History and Literature
(not offered in 2015-2016)
- Behavior Psychology
- Classical Civilizations
- Current Issues in American Society
- Economic Studies
- Film in American Society
- History of St. Louis
- International Relations
- Introduction to Philosophy
- Psychological Disorders & the Media in American Society
- Sociology
- Sports and Western Society (not offered in 2015-2016)
- World at War: The Story of World Wars I and II
- AP European History
- AP Human Geography
- AP Macroeconomics
- AP Psychology
- AP U.S. Government and Politics
- AP United States History
- AP World History

*** By teacher recommendation only**

WORLD AND U.S. HISTORY I

9th Grade
Credit - 1
Full Year

This year-long course is designed to provide students with a survey of world and U.S. history from 1400 to the late 19th century. Major themes and key content are both explored in the various units studied. The course requires discussion, maps, document study, and library research papers as well as successful performance on essay and objective tests. A major goal of the course is to develop an appreciation of other people's cultures, traditions, and history.

TOPICS IN WORLD/U.S. HISTORY I

9th Grade
Credit – 1
Full Year

Prerequisite: By teacher recommendation only

Topics in World/U.S. History I is a course whose adapted and modified curricula is designed to meet certain lower-ability levels present in typical CHS classrooms. Because the Social Studies Department believes that, in many cases, the best way to group students for instruction is heterogeneously, some students enrolled in World/U.S. History I will require adapted or modified curricula. These students will have individualized goals and will receive instruction and feedback based on their specific needs.

Topics in World/U.S. History I may be used as a designation for students who require modifications in content, standards, and/or grading in the World/U.S. History I course. Texts and written assignments will follow the same thematic and skill content, but will be adjusted for developmental level.

WORLD AND U.S. HISTORY II

10th Grade
Credit - 1
Full Year

The follow-up to World and U.S. History I, this sequential course covering the period from the late 19th century to the present is designed to examine the dynamics of a world and U.S. that are in the process of transition to modern times. The themes of industrialization, global economy, reform, revolution, nationalism, and global conflict are stressed. The emphasis is on the further development of the skills of investigation and critical thinking necessary to increase one's understanding of today's interconnected, changing world. This course requires discussion, awareness of geography, document study, and library research papers as well as successful performance on tests.

TOPICS IN WORLD AND U.S. HISTORY II

10th Grade
Credit – 1
Full Year

Prerequisite: By teacher recommendation only

Topics in World/U.S. History II is a course whose adapted and modified curricula is designed to meet certain lower-ability levels present in typical CHS classrooms. Because the Social Studies Department believes that, in many cases, the best way to group students for instruction is heterogeneously, some students enrolled in World/U.S. History II will require adapted or modified curricula. These students will have individualized goals and will receive instruction and feedback based on their specific needs.

Topics in World/U.S. History II may be used as a designation for students who require modifications in content, standards, and/or grading in the World/U.S. History II course. Texts and written assignments will follow the same thematic and skill content, but will be adjusted for developmental level.

AMERICAN GOVERNMENT

11th - 12th Grade
Credit - 1/2
Semester 1 or 2

This course satisfies a state graduation requirement. Students study politics, law-making, types of political leaders, and the court system at the federal, state, and local levels of government. Each unit includes comparisons with other countries and references to historical events that illustrate the concepts being studied. A major emphasis is placed upon the role of the citizen in a democratic society. Activities include discussion, document study, role-playing, research activities, essays, and projects.

TOPICS IN AMERICAN GOVERNMENT

11th – 12th Grade
Credit –
Semester 1 or 2

Prerequisite: By teacher recommendation only

Topics in World/U.S. History II is a course whose adapted and modified curricula is designed to meet certain lower-ability levels present in typical CHS classrooms. Because the Social Studies Department believes that, in many cases, the best way to group students for instruction is heterogeneously, some students enrolled in World/U.S. History II will require adapted or modified curricula. These students will have individualized goals and will receive instruction and feedback based on their specific needs.

Topics in World/U.S. History II may be used as a designation for students who require modifications in content, standards, and/or grading in the World/U.S. History II course. Texts and written assignments will follow the same thematic and skill content, but will be adjusted for developmental level.

AFRICAN AMERICAN HISTORY I

11th – 12th grade

Credit – 1/2

Semester 1

This course will explore the African American experience from slavery to emancipation. We will begin with a look at the African slave trade and will study the social, cultural, economic, and political aspects of American slavery, with an emphasis on the African American point of view. Special consideration will be given to regional conditions and issues relating to societies with slaves and slave societies, the abolitionist movement, the Underground Railroad, slave rebellions, the slave family, community, and culture, and free African Americans in antebellum America. We will end the semester with an examination of the role played by African Americans in the Civil War, and in the abolition of slavery. There will be an emphasis on reading, writing, and discussion. This course may be taken independently of African American History II.

AFRICAN AMERICAN HISTORY II

11th – 12th grade

Credit – 1/2

Semester 2

This course will pick up the African American experience during Reconstruction and examine the challenges and obstacles faced by African American men, women, and children during the remainder of the 19th century, and to the present. Particular attention will be focused on the achievements and contributions of African Americans, and on the impact of segregation on the social, cultural, economic, and political evolution of African Americans through desegregation and the Civil Rights Movement. There will be an emphasis on reading, writing, and discussion. This course may be taken independently of African American History I.

THE AMERICAN CIVIL WAR AND THE FRONTIER IN AMERICAN HISTORY (not offered in 2015-2016)

11th - 12th Grade

Credit - 1/2

Semester 1 or 2

The first quarter of the course surveys the history of the American Civil War. Beginning with the underlying causes of the War, we will proceed to a close examination of the actual fighting. Different military styles of leadership, new weapons and the daily life of the average soldier will be discussed. The effects of the War Between the States on national development will conclude this portion of the course. Throughout the course, time will be spent looking at the way the Civil War has been portrayed in film and literature. Students will view excerpts from Civil War movies and read several fictional accounts of the war experience.

The second quarter of the course is an interdisciplinary look at the role of the frontier in American history, incorporating art, literature, and history. The course surveys American continental expansion from colonial times to the eventual “closing” of the frontier in 1890. The Turner Thesis and its explanation of the impact of the frontier on American development will provide the theme of the course. Another area of focus will be the impact of expansion on Native American cultures and the varieties of response they offered to colonizers, conquerors, and explorers. The way the frontier experience has been interpreted in literature will also be studied, as will the way artists have variously interpreted “the West.” The relationship between the environment and frontier expansion will be investigated by reading classic and new texts. The role of women and ethnic minorities in the westward movement will be analyzed.

THE AMERICAN MILITARY EXPERIENCE IN HISTORY AND LITERATURE (not offered in 2015-2016)

11th - 12th Grade
Credit - 1/2
Semester 1 or 2

The American Military Experience in History and Literature will explore the relationship between the wars our nation has fought and its political, social, and cultural developments. The way different pieces of literature, both contemporary and classic, have given expression to the central themes of those conflicts will be the other focus of the course. The major units of study will include the American Revolution, the Civil War, World Wars I and II, and the Vietnam War. Also to be examined, though not in the same detail as the above, will be the colonial wars of the 17th and 18th centuries, the War of 1812, the Mexican War, Native American resistance in the 19th century, and the Korean War.

As a class, students will read four to five novels that deal with the major units. Students will also read independently two to three other works that have the minor units as their historical setting. "Reading circles" will be established whereby students can share their independent reading with the class. After completing the course, students should have a deeper appreciation of the role our military experience has had in shaping our national character. They should also have an enhanced awareness of the ways in which literature can serve to heighten our understanding of historical events.

BEHAVIORAL PSYCHOLOGY

11th - 12th Grade
Credit - 1/2
Semester 1 or 2

The ultimate purpose of psychology is to help students try to understand why we behave and think the way we do. A textbook study of the explanations for human behavior is used to provide the basic knowledge; then a variety of activities involve the students in applying the theories to themselves and their lives. Such basic topics covered include, but are not limited to, how humans learn and remember, how psychologists study behavior, the brain's influence on behavior, levels of consciousness, sleep and dreams, motivation behind one's behavior, and stress. A significant amount of time and energy is spent in student exploration of themselves: their behavior, ethics and values, thought processes, and relationships. Several methods are used, including lecture, primary and secondary reading, computer simulations, out-of-class projects, polls, group work, films, guest speakers, and heavy emphasis on class discussion. The course uses a college-level text, and daily homework assignments will make up a large portion of the student's grade.

CLASSICAL CIVILIZATIONS

11th - 12th Grade
Credit - 1/2
Semester 1 or 2

Classical Civilizations surveys the ancient societies of India, China, Greece, Rome, and the Americas. The course will examine the history of these cultures and the philosophy, religion, art, and literature that they produced. Students will be expected to read extensively and to discuss such works as the Upanishads, Confucius' Analects, Homer's Iliad, the Greek tragedies, and Virgil's The Aeneid. Cross-cultural contacts between these ancient societies will be emphasized, along with a close examination of the similarities and differences to be found between them. Students should leave the course with a better understanding of how events and developments in antiquity served to build the foundations for later historical developments in each of the cultures studied.

CURRENT ISSUES IN AMERICAN SOCIETY

11th - 12th Grade
Credit - 1/2
Semester 1 or 2

In this course, students will identify and examine important social, political, cultural, and economic issues facing the United States today. Students will study both domestic and international perspectives on those issues. The format of the course will change by quarter. The first quarter, the class will collectively select broad categories, like education, foreign policy, science and technology, immigration, and race issues, and each week will be devoted to the study of that issue. Students will be presented with articles, videos, and guest speakers throughout the week, and each week will culminate on Friday with a graded discussion. The next quarter is devoted to research and presentations. Students select whatever “current issue” interests them the most - anything from abortion to steroids in sports - then write a research paper and deliver a presentation over their topic. In addition to the daily homework and research project, students in this course are expected to participate in debate and discussion and stay current with the news via television, Internet, and newspaper.

ECONOMIC STUDIES

11th - 12th Grade
Credit - 1/2
Semester 1

This course surveys the fields of microeconomics, macroeconomics, and gains from trade. Economic Studies involves the systematic study of topics such as opportunity cost, the role of supply and demand, income and consumption, money and banking, management and labor, government expenditures and taxation, inflation and unemployment, growth and recession, wealth and poverty, and the costs and benefits of international trade. Students in this class will study the role of the Federal Reserve and the basics of monetary and fiscal policies, as well as the workings of various forms of business organizations.

FILM IN AMERICAN SOCIETY

11th - 12th Grade
Credit - 1/2 History credit
Semester 1 or 2

This course is designed to teach students about the significance of film in our society. Students will learn about the history of film, the storytelling aspects of film, and the portrayal of American History in film. A basic premise of the course is that film both shapes and reflects our society. Students will watch films in class and for homework, and compose a series of 5-7 short essays reflecting on the films (All English students are required to conference and revise five of these compositions). Students will analyze historical films, participate in class discussions, and write daily responses to the films. Examples of films studied in class may include Modern Times, Casablanca, Dr. Strangelove, JFK, Apocalypse Now!, Gladiator, and American History X. Students can enroll for History or English credit. The course is team-taught and meets during the same period.

HISTORY OF ST. LOUIS

11th – 12th Grade

Credit –1/2

Semester 1 or 2

This course will provide an expansive overview of the history of St. Louis. Students will trace the course of development of this small 18th century French trading post as it develops into a major metropolis during the Gilded Age in American history. The end of the course will be an examination of the city as it now exists through successes and failures. The course will discuss individuals who were important to the development of the city, but will emphasize the significant contributions (e.g.: architecture, music, art) of the culturally diverse people who have made the city of St. Louis what it is today. The course will conclude with ideas of how conflict and cooperation have played key roles in the development of social, political, and economic systems and movements in contemporary and future issues that have and could further develop the city and surrounding communities.

INTERNATIONAL RELATIONS

11th - 12th Grade

Credit - 1/2

Semester 1 or 2

This semester course evaluates the modern economic and political relationships between countries. Since September 11th, Americans have become aware of the fact that events around the world have an impact on our society. This course aims to educate young adults about recent global history from an international perspective and study current events from around the world. Students will be encouraged to form educated opinions about global issues and discuss the role of the U.S. in a continually changing international world. Major themes of the 21st century such as globalization, terrorism and environmental affairs will be evaluated, as well as regional “case studies” regarding controversial conflicts presently unresolved.

INTRODUCTION TO PHILOSOPHY

11th - 12th Grade

Credit - 1/2

Semester 1

Introduction to Philosophy is a survey course that explores the great questions of the day (e.g., What is right? Does God exist? What is love? What is justice?) through the eyes of renown philosophers like Plato, Aristotle, Thomas Aquinas, John Stuart Mill, Blaise Pascal, David Hume and Karl Marx. We will also discuss and investigate the writing of contemporary philosophers including David Foster Wallace, Mary Daly, and Peter Singer. Discussions and projects attempt to make these philosophical questions personally relevant. Readings will primarily be drawn from Manuel Velasquez’s Philosophy: A Text With Readings, a very readable text, as well as the original writings of the aforementioned philosophers.

PSYCHOLOGICAL DISORDERS AND THE MEDIA IN AMERICAN SOCIETY

12th Grade
Credit - 1/2
Semester 1 or 2

Prerequisite: Successful completion of Psychology and AP Psychology

This course is designed for seniors who have completed the Psychology and AP Psychology courses and want even more psychology. After a brief review of the Abnormal Psychology unit from AP Psych, students will be introduced to some basic film-making techniques and film-watching strategies. A significant emphasis will be placed upon how disorders and the people who have them are correctly and incorrectly portrayed by the popular media, and the effects these portrayals have on American society. Major units will include the following disorders: Anxiety; Somatoform and Dissociative; Mood; Personality; Schizophrenia and Delusional; Neuropsychological; Mental Retardation; Autism; and Treatment. Potential films include The Aviator; Psycho; Seven Pounds; The Odd Couple; A Beautiful Mind; Memento; Dominick and Eugene; and One Flew Over the Cuckoo's Nest. Scholarly journal articles will be regularly assigned, and students will write response papers for each disorder and corresponding film. Lectures, discussion, guest speakers, and outside film-watching assignments will also be activities for this course. **(This course does not yet qualify for NCAA eligibility.)**

SOCIOLOGY

11th - 12th Grade
Credit - 1/2
Semester 1 or 2

This course studies the structure and functioning of human society, and the relationships between individuals and groups within society. Students learn to use sociological perspective and sociological imagination to analyze the relationships between and within groups in society. Topics studied include the history of Sociology as an academic discipline, components of culture, elements of social structure, the process of socialization, deviance and crime, class, status and power, race in American society, and the sociology of gender, age and health. Students will be expected to apply sociological concepts to their personal experience and to society at large. Participation in cooperative learning assignments is required.

SPORTS AND WESTERN SOCIETY (not offered in 2015-2016)

11th - 12th Grade
Credit - 1/2
Semester 1 or 2

This semester elective will examine the history of sports in Europe and the United States and will demonstrate the ways in which games reflect various aspects of Western society. For this course, sports will provide a vehicle for the evaluation of social issues, economic trends, and historical concepts. Students will study ancient athletic rituals, the development of modern sports during the middle age and industrial revolution, and the role of amateur and professional sports throughout the 20th century. In addition to the historical evolution of sports, this class will focus on the way in which Western sports represent the values and attitudes of American culture. Themes of race, gender and politics will be highlighted in this evaluation of recent historical events and the growing popularity of "Sports in Western Society."

WORLD AT WAR: THE STORY OF WORLD WARS I AND II

11th – 12th Grade

Credit-1/2

Semester 1 or 2

This course examines the causes, major events, battles and personalities involved and effects of World Wars I and II. Though the military aspects of these conflicts will be emphasized, other cultural, social, and political themes will not be neglected. A global approach will be taken, emphasizing the “world” aspects of the two wars. A diverse reading list will be offered to students, giving them some flexibility in terms of areas of study emphasis. A rich collection of video support will highlight key moments in the story of these wars. Included in some of the major units of study will be origins of WWI and II, tactics, strategies and generals, impact of new weapons, the rise of dictators, the Holocaust, and the morality of strategic bombing.

AP EUROPEAN HISTORY

11th - 12th Grade

Credit – 1

Full Year

Prerequisites: World and U.S. History I and II. Students are selected for this course on recommendation of the World History teachers.

The aims of this course are to build on the student's knowledge of the factual narrative to achieve an understanding of some of the principal themes in modern European history, an awareness of the consequences of European contacts with other areas of the world, and an ability to analyze historical evidence. The chronological period begins with the high Renaissance and concludes with the late 1950's. The three-hour AP examination offered each May enables a student to receive college credit and advancement in college course work at most colleges and universities. Discussion, document study, and library research papers will be required. Students are expected to take the AP exam in May. Students have the option of gaining three semester hours of credit at the University of Missouri-St. Louis. Additional work is required.

AP HUMAN GEOGRAPHY

11th - 12th Grade

Credit - 1/2

Semester 2

Prerequisites: World and U.S. History I and II. Students are selected for this course on recommendation of the World History teachers.

The Advanced Placement course in Human Geography introduces students to the study of patterns and processes that have shaped human understanding, the use, and the alteration of the Earth's surfaces, as well as the methods and tools geographers use in their study of geography. We use and think about maps and spatial data sets in order to pose questions and solve problems. We also study how tastes, values, regulations, and economics all work together to influence culture. Finally, we take a look at the changing interconnections among places and how events in one place can influence those elsewhere. Students are expected to take the AP exam in May.

AP MACROECONOMICS

11th - 12th Grade
Credit - 1/2
Semester - 2

Prerequisite: A grade of A or B in Economic Studies

The AP Macroeconomics class is designed to give students a thorough understanding of economic principles that apply to an economic system as a whole. Included in the AP study of macroeconomics are the topics of national income, economic performance measures (e.g., GDP), price determinants, economic growth, supply and demand, international trade (e.g., the law of comparative advantage), and monetary versus fiscal policies. Students will prepare for the AP exam through classroom instruction, problem sets, and research of relevant economic topics.

AP PSYCHOLOGY

11th - 12th Grade
Credit - 1/2
Semester 2

Prerequisite: A grade of A or B in Behavioral Psychology

This semester course will allow students to explore more topics and issues in psychology. These include the influences of nature and nurture, the development of behavior from infancy to old age, attitudes and their formation, social perceptions and relationships, personality, psychological assessment and testing, and abnormal psychology and treatment. The central themes and methodology will be the same as in the introductory course. Students will be able to prepare for and take the Advanced Placement examination.

AP U.S. GOVERNMENT AND POLITICS

11th – 12th Grade
Credit-1/2
Semester 2

The AP course in United States Government and Politics is designed to give the student a critical perspective on U.S. politics and government. This course examines the historical and philosophical underpinnings of the Constitution, the balance between security and liberty, and the relationship between rights and responsibilities. It also requires familiarity with the various institutions, groups, beliefs, and ideas that make up the American political system. To demonstrate understanding of larger political issues, we explore such important concepts as immigration, inequality, racism, education, First Amendment rights, and the media.

AP UNITED STATES HISTORY

11th - 12th Grade

Credit - 1

Full Year

Prerequisites: World and U.S. History I and II. Students are selected for this course on recommendation of the World History teachers.

This college-level course will prepare each student to take the Advanced Placement exam in U.S. History, which is offered each year in May. Students who successfully pass the examination can receive up to six hours of college credit and placement in American History according to the policy of the college they attend. The course places a heavy emphasis on readings that involve college textbooks, documents, and monographs. Wide student participation in daily classroom activities is encouraged. Essay exams and research papers comprise the writing requirements of the course. Computer review lessons are available to the students. Students are expected to take the AP exam in May.

AP WORLD HISTORY

11th - 12th grade

Credit - 1

Full Year

Prerequisites: World and U.S. History I and II. Students are selected for this course on recommendation of the World History teachers.

The Advanced Placement course in World History will develop a greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. The chronological period starts with the beginnings of human history. However, we will focus primarily on the past thousand years of global experience. There will be specific emphasis on the contacts among societies that form the core of world history as a field of study. The AP World History course, unlike the World History I and II courses, will not focus on the internal politics of the United States. In addition, coverage of European history does not exceed 30 percent of the total course. This course also addresses habits of mind or skills in two categories: 1) analysis of historical evidence and 2) study of relevant factual knowledge. Discussion, document study, and library research papers will be required. Students are expected to take the three-hour AP exam in May.

SPECIAL SCHOOL DISTRICT RESOURCES

The St. Louis County special School District provides support to Clayton High School students diagnosed with an educational disability. CHS students with an Individualized Education Plan (IEP) are provided support on a continuum of services. Special education teachers collaborate with general education teachers about accommodations and modifications in the classroom, as well as co-teach classes within the general course offerings. Special education teachers conduct classes in study and learning strategies, reading strategies, and functional skills curriculum. All services are based entirely on the individual student's IEP.

IEP ENGLISH

9th - 12th Grade
Credit – 1.0
Full Year

Prerequisite: IEP Case Manager/IEP team recommendation

IEP English provides direct instruction of verbal and written communication skills in real world environments along with classroom enrichment activities to support life skills and transitional goals. This course is designed to build a solid foundation of everyday verbal and written communication skills. Topics may include, but are not limited to: library use, basic grammar, job related skills, research, everyday reading and writing skills, and verbal communication. The primary goal of the course is to provide instruction, support, and feedback to students as they learn how communication arts are utilized daily. IEP English does not satisfy credit for state of Missouri graduation requirements. It is designed for students that are graduating based upon meeting IEP goals, as determined by their IEPs. **(This course does not qualify for NCAA eligibility.)**

IEP MATH

9th - 12th Grade
Credit – 1.0
Full Year

Prerequisite: IEP Case Manager/IEP team recommendation

IEP Math provides direct instruction of math skills in real world environments along with class enrichment activities to support life skills and transitional goals. This course is designed to build a solid foundation of everyday math skills. Topics may include, but are not limited to: basic math facts (addition, subtraction, multiplication, and division), fractional parts, money, measurement, time, banking, check writing, budgeting, shopping, and problem solving skills. The primary goal of these courses is to provide instruction, support, and feedback to students as they learn how math is utilized daily. IEP Math does not satisfy credit for state of Missouri graduation requirements. It is designed for students that are graduating based upon meeting IEP goals, as determined by their IEPs. **(This course does not qualify for NCAA eligibility.)**

IEP HISTORY

9th - 12th Grade
Credit – 1.0
Full Year

Prerequisite: IEP Case Manager/IEP team recommendation

IEP History is a life skills course designed for students who have an IEP and need additional assistance learning the basic concepts covered in US/World History. All the lessons are modified to meet the student's specific needs. The course will also integrate essential economic, geographical, civic, and cultural concepts. Emphasis will be given to critical thinking skills, use of source documents, and historical perspectives. IEP US History does not satisfy credit for state of Missouri graduation requirements. It is designed for students that are graduating based upon meeting IEP goals, as determined by their IEPs. **(This course does not qualify for NCAA eligibility.)**

IEP SCIENCE

9th - 12th Grade
Credit – 1.0
Full Year

Prerequisite: IEP Case Manager/IEP team recommendation

IEP Science is a life skills science course designed for students who have an IEP and need additional assistance learning the basic concepts covered in science. All the lessons are modified to meet the student's specific needs. This course is the study of motion, force, energy, states of matter, life processes and diversity in the living world, classification systems, health, and biomes and their impact on every day life. Lab activities and projects will be a part of this course. IEP Science does not satisfy credit for state of Missouri graduation requirements. It is designed for students that are graduating based upon meeting IEP goals, as determined by their IEPs. **(This course does not qualify for NCAA eligibility.)**

TRANSITION TO WORK

11th - 12th Grade
Credit – 1.0
Full Year

Prerequisite: IEP Case Manager/IEP team recommendation

Through the Community Based Vocational Instruction (CBVI) program, students are provided direct instruction on vocational skills in real work environments, along with classroom enrichment activities to support vocational goals. The goal of this course is to provide instruction, support, and feedback to students as they learn workplace expectations and prepare for competitive employment, supported employment, sheltered workshop, or volunteering. Transition to Work is designed for students with IEPs. **(This course does not qualify for NCAA eligibility.)**

STUDY SKILLS

9th - 12th Grade
Credit – 1.0
Full Year

Prerequisite: IEP Case Manager/IEP team recommendation

Study Skills is an academic strategies course designed for students who have an IEP and need additional assistance learning the basic strategies for academic success. This course is designed to facilitate learning through strategies in organization and time management, test taking, note taking, and self-advocacy, as well as learning strategies in reading comprehension, written expression, math, and vocabulary development. IEP goals, skill development, related services, and academic support are implemented and monitored during this course. **(This course does not qualify for NCAA eligibility.)**

STUDY SKILLS - READING

9th - 12th Grade
Credit – 1.0
Full Year

Prerequisite: IEP Case Manager/IEP team recommendation

Study Skills – Reading is a course designed for students who have an IEP and need additional assistance in developing skills to become proficient readers. This course utilizes a research-based reading curriculum to develop student skills in phonemic development, word parts, word relationships, parts of speech, reading comprehension and writing. Students develop and implement reading strategies for classroom learning. IEP goals, skill development, related services, and academic support are implemented and monitored during this course. **(This course does not qualify for NCAA eligibility.)**

World Languages and Cultures

Essential questions:

- How does learning about other cultures benefit us as individuals and our society as a whole?
- What linguistic structures and vocabulary are required for effective communication in and understanding of a second language?
- How does language reflect the essence and perspective of a people and their culture?

Learning a foreign language is an exciting way of understanding, relearning, and renaming the world around us and viewing it through a new cultural perspective. In all the modern language classes, from the beginning, we teach through a blend of activities that mirrors the six strands of the ACTFL Proficiency Guidelines by which the National Standards are measured. These guidelines are comprehensibility, comprehension, language control, vocabulary usage, communication strategies, and cultural awareness. The goal at all levels is to build on and refine, in a systematic manner, what has already been learned. Ultimately, the students will internalize the language and use it as a tool to communicate sensitively and spontaneously with others.

The Show-Me Standards

Rationale for Foreign Language Study

Missouri children need second language fluency in order to be competitive in the 21st century. Students of foreign languages score statistically higher on standardized tests conducted in English. Students who average four or more years of foreign language study scored higher on the verbal section of the SAT than those who had studied four or more years in any other subject area (1992 report consistent with College Board profiles of previous years.) Students of foreign languages have access to greater numbers of career possibilities and develop a deeper understanding of their own language and other cultures. Some evidence also suggests that children who receive second languages instruction are more creative and better at solving complex problems. Benefits to society are many: Missourians fluent in other languages enhance our economic competitiveness abroad, improve global communication, and maintain national, political, and security interests.

CHINESE I

9th - 12th Grade

Credit - 1

Full Year

Chinese I will introduce the students to the basic components of Mandarin Chinese through theme-based content and activities. Pinyin Romanization, simplified forms of Chinese characters and basic grammar patterns, as well as functional everyday expressions will be taught within the living context of Chinese culture. Topics will start from self-introduction and develop to students' immediate surroundings such as school, family and daily life. Cultural components will be taught through movies, video clips, songs, calligraphy, crafts, cooking, festival celebrations and geographic context. The ultimate goal is to motivate students to become interested in and committed to the learning of Chinese language and culture.

CHINESE II

9th - 12th Grade

Credit - 1

Full Year

Prerequisite: Chinese I

Chinese II is designed for students who have studied Chinese for one year at CHS or two years at WMS. In this course, students will be guided away from mechanical, classroom-style language learning at the beginning level and develop their language proficiency through more complex grammar and more spontaneous conversation. Authentic reading, listening and visual materials such as maps, traffic signs, menus, forecasts, shopping ads and hospital signs on online newspapers and TV will be incorporated into the class. Students will develop their cultural understanding and appreciation through frequent comparisons of different regions in China as well as between China and the United States of America.

CHINESE III

9th - 12th Grade
Credit - 1
Full Year

Prerequisite: Chinese II

Chinese III is designed for students who have successfully completed the first two years of Chinese. In this course, students will continue to develop their language proficiency through more complex grammar, idiomatic language and more exposure to authentic Chinese materials. Students will develop their cultural understanding and appreciation through discussion of contemporary social issues in China as well as the comparison of the life of teenagers in China and the United States. Topics include academic, extracurricular, and social aspects of school; teenagers' freedom and responsibilities; and diverse family structures in contemporary Chinese society.

CHINESE IV

9th - 12th Grade
Credit - 1
Full Year

Prerequisite: Chinese III

Chinese IV is designed for fourth-year students of Chinese to prepare them for advanced study. During this year we will explore a changing China in a changing world, the impact of change on traditions, education, the environment, and the way Chinese people live. Students will continue to develop their language proficiency through analysis and discussion of selected authentic readings, writing compositions, participating in debates and delivering in-depth oral presentations. Films, TV shows and music videos will be used to enhance their cultural understanding and language abilities.

FRENCH I

9th - 12th Grade
Credit - 1
Full Year

This course is designed to acquaint the student with a working knowledge of the sounds, spelling, vocabulary and structure of the French language. Speaking is emphasized as students learn to carry on simple conversations about a variety of everyday topics such as shopping, school, leisure-time activities, and food. Students learn to relate events and express opinions in the present and the future. The language lab is used to help with pronunciation. Students get an introduction to the city of Paris and the diversity of the Francophone world. Reading and writing activities will be introduced, along with the study of basic French grammar. The course requires daily homework, class participation, oral and written quizzes, unit tests, and various projects for cultural enrichment.

FRENCH II

9th - 12th Grade

Credit - 1

Full Year

Prerequisite: French I

In French II, students continue to develop basic listening, speaking, reading, and writing skills. Basic grammatical concepts and topics of vocabulary are still being presented at this level while incorporating previously learned material. Students are expected to understand the main ideas of conversations spoken by native speakers, as well as be able to speak, read and write on topics related to themselves in everyday life situations, family and friends, celebrations, and French schools using the present, past and near-future tenses. Students will also continue to broaden their knowledge and understanding of the French-speaking world. The course requires daily homework, class participation, participation in listening activities, oral and written quizzes and tests, and various projects for cultural enrichment.

FRENCH III

9th - 12th Grade

Credit - 1

Full Year

Prerequisite: French II or the Wydown 6-8 French sequence

The French III course is a full year of in-depth study of more advanced grammatical concepts which will enable students to gain greater proficiency in the four basic skills of listening, speaking, reading, and writing. Emphasis will be placed on the writing of organized paragraphs. Students will also become more familiar with some of the most significant events and historical figures in the history of France, from the Roman era to the 17th century and the Modern Art movement in France. Students will read several excerpts of literature in various genres representative of the eras studied, they will present projects based on culture as well as history, and they will recite poetry. Students will be graded on oral class participation, class preparation, participation in language laboratory activities, oral and written quizzes and tests, and various projects for cultural enrichment.

FRENCH IV

10th - 12th Grade

Credit - 1

Full Year

Prerequisite: French III

French IV continues in the same textbook used in French III. The focus of this year is to build the skills necessary for advanced study. This course helps students, over time, to build confidence and proficiency in their listening and speaking ability in French. Activities have also been designed to help students to increase their reading proficiency to the point where they feel comfortable doing research in French and reading authentic short stories. Similarly, students will do tiered writing assignments to help them to improve their writing; writing help will be individualized to student needs. Along the way, students will continue to learn additional tenses and grammatical concepts. The cultural focus of this course is the historical roots of modern French culture. Students will have the opportunity to explore and present on a topic related to modern, popular culture in France. Several films are used that tie into the units of study.

ADVANCED FRENCH

11th – 12th Grade

Credit – 1

Full Year

Prerequisite: French IV

Advanced French helps all students to take their French to the next proficiency level; in addition, for some students this is the first course in a two-year sequence that is designed to prepare students to take the AP French Language and Culture exam. Students are expected to be able to understand, speak, read, and write in French. A wide variety of reading materials and an extensive grammar review will help students refine their language skills. Readings range from short stories and poetry to articles on current events. Students improve writing skills through essays, some of which are conference and revised. Oral work includes work on storytelling skills, debate and improvising. Films and music videos are used to improve listening comprehension and for cultural knowledge. Students will be graded on oral class participation, written assignments, presentations and projects, written and oral examinations, and a portfolio.

AP FRENCH LANGUAGE

11th – 12th Grade

Credit – 1

Full Year

Prerequisite: Advanced French

The Advanced Placement French Language and Culture program is intended for those students who have chosen to further develop their second language proficiency and is designed to prepare students to take the AP French exam in May, if they so choose. Students are expected to be able to communicate, present, understand and interpret in French over certain cultural themes while using advanced grammatical structures and vocabulary. The course encompasses aural/oral skills, reading comprehension, grammar, vocabulary, and composition. A wide variety of reading, listening, and speaking materials and an intensive grammar review will help students refine their language skills. Readings range from short stories and poetry to articles on contemporary issues and current events. The novel *Les jeux sont faits* is read and discussed in the spring. Students are expected to improve writing skills through frequent essays, some of which are conference and revised. They also practice speaking and listening skills through frequent use of a variety of sources, including past AP exams. Films and music videos are used to improve listening comprehension and for cultural knowledge. Students will be graded on oral class participation, written assignments, presentations and projects, and written and oral examinations.

FRENCH CINEMA AND CONVERSATION

12th Grade

Credit – 1

Full Year

Prerequisite: Advanced French or AP French (or French IV for seniors with permission of instructor)

French Cinema and Conversation is a class for seniors who would like to pursue their French studies without the pressure of taking the AP French exam in the spring. The class explores units on social, political and historical themes through extensive use of French films and short works of literature. Students will further their understanding of the issues and cultural practices in contemporary France. Unlike other courses in the sequence, this course prioritizes comprehension skills and oral proficiency and does not address new grammatical concepts. This class will also help students extend their skills in researching in French as they produce a variety of presentations and projects in French. This class will be conducted entirely in French.

LATIN I

9th – 12th Grade

Credit – 1

Full Year

Latin was the language of the ancient Romans. Not only has it left an influential literature, but it also has had far-reaching effects upon both English and the Romance languages of Europe. The basic introductory Latin course allows students to begin learning classical Latin through the graded reading program of the Oxford Latin Course. Students develop their reading skills through a gradual widening of vocabulary and sentence patterns in interesting stories about the life of Quintus Horatius Flaccus (known to us as Horace), one of the greatest Roman poets. They will also read about various aspects of Roman life and culture, as well as mythological/historical stories about Classical Greece and Rome. The stories are based meticulously upon Latin literary sources, Roman and Greek history, and archaeology. Throughout the course, students study the connection of Latin words with English vocabulary. Additional readings, films, and discussions complement and enhance the Oxford readings.

LATIN II

9th – 12th Grade

Credit – 1

Full Year

Prerequisite: Latin I

Latin II is a continuation of the Cambridge Latin Course. The level of Latin reading is increasingly complex in sentence structure and the volume of vocabulary increases markedly. Narratives focus on the Roman military and life in the city of Rome. As the story returns to Britain, much focus is given to the living conditions of Roman soldiers during the occupation. Once in Rome, intrigue, deceptions and politics are major themes that follow the character Salvius in his dealings with the emperor and his own clients. Throughout the exploration of the Latin language, students will also study connections of Latin words with English vocabulary.

LATIN III

10th – 12th Grade

Credit – 1

Full Year

Prerequisite: Latin II

The Cambridge Latin Course advances to the beginnings of Latin literature in the third year. The level of Latin readings calls for the most difficult and challenging syntax so as to equip the student for reading the complicated literary language of Latin. Stories involve the heart of Roman society in the capital city: the Senate, the Forum, imperial politics and intrigue, and Stoic philosophy. Some of the early literary readings may include the epigrams of Martial, the letters of Pliny the Younger, and selections from Ovid's *Metamorphoses*. Other Latin writers may be studied according to the interests and needs of the class.

LATIN IV – INTRODUCTION TO LATIN LITERATURE

11th – 12th Grade

Credit – 1

Full Year

Prerequisite: Latin III

In Latin IV, students undertake the reading, analysis and critical interpretation of works of Latin literature. In the first semester, the students study the late Roman republic through the poetry of Catullus and Horace, and the brilliant legal rhetoric of Cicero. The focus of the second semester is Ovid's *Metamorphoses*, a delightful epic poem full of Classical mythology. With selections drawn from a variety of authors and works throughout the year, the students deepen their understanding of Latin vocabulary, syntax, and style while using these skills to further their knowledge of Roman culture and history.

LATIN V – ADVANCED LATIN LITERATURE

12th Grade

Credit – 1

Full Year

Prerequisite: Latin IV

In the highest level of Latin offered, students continue the reading, analysis, and critical interpretation of works of Latin literature. Emphasis will be placed on equipping students for upper-level Latin literature courses at the college level. The primary focus first semester is Julius Caesar's *de bello Gallico*, his own account of his military conquests in Gaul. The second semester is spent studying Vergil's epic *Aeneid*. Throughout the year, students study themes such as mythology, military strategy, and propaganda in the late Roman republic and the early empire.

SPANISH I

9th – 12th Grade

Credit – 1

Full Year

This course is designed to provide students with a beginning knowledge of the Spanish language and the culture of various Spanish-speaking people of the world. Students will learn to listen and comprehend spoken Spanish, to pronounce Spanish correctly, and to express themselves in Spanish on a variety of subjects. Reading and writing will be included. A sizable vocabulary of a practical and modern nature will be acquired by the end of the first year. The course requires daily homework, class participation, participation in language laboratory activities, oral and written quizzes, unit tests, and various projects for cultural enrichment.

SPANISH II

9th – 12th Grade

Credit – 1

Full Year

Prerequisite: Spanish I

This course is a continuation of Spanish I and serves as the second year for beginning students. It may be appropriate for incoming 9th graders from the long-sequence elementary/middle school Spanish program who are in need of additional preparation before enrolling in Spanish III. Students will continue their study of the Spanish language and the cultures of the Spanish-speaking people of the world. Students will learn to listen to and comprehend spoken Spanish, to pronounce Spanish correctly, and to express themselves in Spanish on a variety of subjects. Reading and writing will be included. The course requires daily homework, class participation, participation in language laboratory activities, oral and written quizzes, unit tests, and various projects for cultural enrichment.

SPANISH III

9th – 12th Grade

Credit – 1

Full Year

Prerequisite: Spanish II

This course is a continuation of Spanish II and serves as the third year for beginning students. Students will continue their study of the Spanish language and the culture of various Spanish-speaking people of the world. Students will learn to listen to and comprehend spoken Spanish, to pronounce Spanish correctly, and to express themselves in Spanish on a variety of subjects. Reading and writing will be included. The course requires daily homework, class participation, participation in language laboratory activities, oral and written quizzes, unit tests, and various projects for cultural enrichment.

INTERMEDIATE SPANISH

9th – 12th Grade

Credit – 1

Full Year

Prerequisite: Long-sequence Spanish program in elementary and middle schools

Intermediate Spanish is a course specifically designed to further develop the linguistic skills of incoming 9th graders that have been enrolled in the long-sequence Spanish program. The intermediate course builds on the thematic spiral of the curricula from the elementary and middle school levels. The themes studied in this course will engage students in a wide variety of activities designed to increase all language proficiency skills. This course prepares students to express themselves using a variety of complex grammatical structures and vocabulary. Students will be evaluated on oral class participation, daily assignments, unit projects, and comprehensive unit tests.

ADVANCED SPANISH

10th – 12th Grade

Credit – 1

Full Year

Prerequisite: Intermediate Spanish or Spanish III

This course is the sophomore component of our long-sequence Spanish program. Students will continue their study of the language and culture of Spanish-speaking countries with the second half of *Dos Mundos*, and *Conexiones 2nd edition* selected units, both college-level texts. Students will participate in a wide variety of experiences and activities to improve their skills in listening, speaking, reading and writing, while deepening their understanding of language and culture. By the end of the course, they will have an introduction to many advanced grammatical structures in Spanish. These linguistic structures will allow students to express themselves on a variety of complex and interesting topics. The course will be taught in Spanish.

ADVANCED SPANISH HONORS

10th – 12th Grade

Credit – 1

Full Year

Prerequisite: Intermediate Spanish plus teacher recommendation or Spanish III plus teacher recommendation

This is an accelerated course and requires teacher recommendation for enrollment. Students will engage in a variety of activities designed to increase their proficiency in listening, speaking, reading and writing, while deepening their understanding of language and culture. These activities include: reading authentic texts such as magazine articles, short stories, excerpts of novels, and poetry; listening to conversations by native speakers on a variety of topics; writing informal and formal compositions; discussing, debating and presenting. In addition, students will complete a comprehensive review of advanced grammatical structures in Spanish. These linguistic structures will allow students to express themselves on a variety of complex and interesting topics. This course will be taught in Spanish.

SPANISH CONVERSATION

11th – 12th Grade

Credit – 1

Full Year

Prerequisite: Spanish III or three equivalent years with teacher recommendation

This class is designed to complement our other beginning-level courses and will review and reinforce indicative, preterite, imperfect and future verb tenses, plus work on evolving conversation skills and pronunciation. The global citizenry component of the course will focus on Latin Americans and will examine the roots of contemporary Latin American culture and highlight traditional cultural topics and issues in daily life in the Spanish-speaking world. Short articles and videos will be the basis for discussion on these topics, with a focus on vocabulary expansion and structured conversation exercises both in groups and pairs.

CURRENT SOCIAL ISSUES IN THE SPANISH-SPEAKING WORLD

11th – 12th Grade

Credit – 1

Full Year

Prerequisite: Advanced Spanish or above

This course features interesting topics, an effective and uniquely sequenced review of selected grammatical points, and a thorough integration of language and culture. Chapters reflect current social issues of concern to today's students, providing students with many opportunities to make connections with topics they are discussing in other courses. Each unit synthesizes the development of language skills and cultural awareness through the active use of film, art, music, and literature from the Spanish-speaking world. Activities are designed to foster involvement, participation and exchange in discussion, composition, cumulative projects and oral presentations.

POPULAR CULTURE IN CONTEMPORARY SPAIN

11th – 12th Grade

Credit – 1

Full Year

Prerequisite: Advanced Spanish or above

This course focuses on the popular culture of contemporary Spain. The class will be conducted entirely in Spanish and use television, films, music and periodicals as primary sources in addition to the text, *España contemporánea*. Students will discover and discuss the historical, social, and political forces that shape current-day Spain. They will study topics such as the Spanish Civil War, the family of the XXI century, the changing role of women, and the role of today's youth. Students will write short papers, make individual and group presentations in a variety of formats, and conduct independent research. The activities in this course are designed to promote comprehension of authentic texts/speakers, oral proficiency, and cultural understanding of the practices, perspectives and products of Spain.

CINEMA AND LITERATURE FOR ADVANCED SPANISH CONVERSATION

11th – 12th Grade

Credit – 1

Full Year

Prerequisite: Long-sequence Spanish students enrolled in Current Social Issues, Advanced Spanish Honors or Spanish Pop Culture

Cinema and Literature for Advanced Spanish Conversation is a class designed to further develop students' oral proficiency and fluency in Spanish. The activities in this class promote authentic comprehension of text, native dialogue, oral proficiency and cultural awareness of the practices, perspectives and products of the Spanish-speaking world. This course engages students in the exploration of the fascinating and diverse cultures of contemporary Hispanic America and Spain through film and literature. The films have been carefully chosen for their artistic qualities and wide variety of themes and cultures they portray. The literary readings have been chosen and organized according to their thematic content. The students will read a compilation of short stories, novel excerpts, plays and poetry. Students will write short papers, movie reviews, individual and group presentations. The class is conducted entirely in Spanish.

AP SPANISH LANGUAGE

11th – 12th Grade

Credit – 1

Full Year

Prerequisite: Advanced Spanish Honors plus teacher recommendation or Current Social Issues plus teacher recommendation

The Advanced Placement Spanish Language and Culture program is intended for those students who have chosen to further develop their second language proficiency. The AP Spanish Language and Culture course prepares students to demonstrate their level of proficiency across the three communicative modes: Interpersonal, Interpretive and Presentational. The course is meant to be comparable to third year (fifth or sixth semester) college and university courses that focus on speaking and writing in the target language at an advanced level. Students use several textbooks and authentic materials containing a wide range of thought-provoking communicative activities including: extensive grammar review, literary analysis, and reading materials to widen students' cultural awareness of the Spanish-speaking world. Students will be evaluated on oral class participation, a wide variety of written assignments, projects, presentations and comprehensive examinations.

CLAYTON HIGH SCHOOL - SPECIAL OFFERINGS

DRIVER'S EDUCATION

10th - 12th Grade
Credit - 0
Semester 1 or 2

This six-week course is designed to help the student develop the knowledge and skill essential to safe driving. It consists of 12 hours of classroom instruction, six hours of behind-the-wheel experience, and six hours of driving observation. Classroom instruction occurs on Saturday mornings from 8:30 a.m. to 10:30 a.m., and the required hours of driving instruction and observation are scheduled after school and on weekends. Students must be 15 years old by the time the driver's education class begins. The course is fee-based: \$425.00 for residents and \$475.00 for non-residents. Please contact Terri Halsey at 854-6616 for an application.

INDEPENDENT STUDY

Independent study should only be used by students for a course not offered at Clayton High School. Students should not take a course Independent Study when they can earn the same credit through another course at CHS (even in the case of schedule conflicts). Independent study courses must be proposed and approved by the end of the third week of the semester. Independent Study courses already in the Program of Studies will continue as listed. Independent Study courses must be pre-approved by the individual teacher, department head, counselor and administrator before a student enrolls in the course. Extenuating circumstances will be reviewed on an individual basis by an administrator.

LIBRARY INFORMATION CENTER

The Clayton High School Library encompasses both the library and building technology services and is a vital part of the academic environment at CHS. The Library addresses the academic, research and reading needs of students and staff, as well as provides technology resources that are critical to support the school learning environment. The Library collection includes books, periodicals, newspapers, audiovisuals, and electronic resources (Internet access, online subscription databases and eReaders) selected to support curriculum requirements and students' recreational reading interests.

The CHS Library is the information center of the school for students and teachers. Its collection supports the curriculum and contains a balance of print and electronic resources. The program also serves the needs of other organizations within the Clayton learning community through the scheduling and use of resources and facilities. Access to the CHS Library resources is available via the CHS Library Information Center's web page: <http://www.clayton.k12.mo.us//Domain/111>. The library is open to students and staff from 7:30 a.m.-3:30 p.m., with the first half-hour of each day reserved for independent study only.

CLAYTON HIGH SCHOOL

STUDENT ASSISTANCE PROGRAMS

In keeping with the Clayton High School commitment to the total growth of each student, the school staff offers a wide variety of special services and programs to support student achievement.

SCHOOL COUNSELING SERVICES

Clayton High School is dedicated to providing a quality program of school counseling for all students in grades 9 - 12. The program is a framework modeled after the American School Counseling Association model. The three domains included within the counseling curriculum are academic, personal/social, and career development. The ultimate goal of the program is student learning.

Personal counselors are assigned to students by grade level. The following individuals serve as counselors:

9th Grade – Tobie Smith
10th Grade – Debra McBride
11th Grade – Joyce Bell
12th Grade – Alice Morrison
Carolyn Blair - Counseling Services Director, College Counselor (A – H)
MaryAnne Modzelewski – College Advisor (I – Z)

The counselors welcome individual conferences with students. To schedule an appointment, please sign up in the Counseling Department, which is located on the first floor of the main building or call the Counseling Department at (314) 854-6605 or (314) 854-6650.

THE LEARNING CENTER

During the school day, the Learning Center offers classes in three content-specific areas--English, History and Mathematics – as well as a generic Study Center, which provides quiet, academic atmospheres for students. In Learning Center, students can work in an environment that is dedicated to academics, work in small groups with teachers certified in the subject matter, and catch up on any areas of challenge.

Learning Center students receive help with homework, long-term assignments, study strategies, and organizational skills. Students can also get ACT preparation strategies through books and computer software the Learning Center provides.

Students who attend every day can receive one-half “non-specified elective” credit for the semester; those attending every other day can receive one-fourth credit per semester. To receive credit, students must be prompt, keep a daily planner, show respect, and work with Learning Center teachers to improve grades and maintain a minimum 85% in class and 85% attendance.

Learning Center teachers keep track of class outlines, assignments and individual student progress reports. They discuss this information with the students and help them work on classes in which they need assistance.

The Learning Center is also open before and after school (7:30 a.m. to 8:15 a.m. and 3:05 p.m. to 4:00 p.m. Monday through Thursday; 7:30 a.m. to 8:15 a.m. on Friday). During these times, the Learning Center acts as a study hall. If you have any questions, please call Carroll Lehnhoff-Bell, Learning Center Director, at (314) 854-6690 or e-mail her at carrolllehnhoff-bell@claytonschoools.net. **(This course does not qualify for NCAA eligibility.)**

THE READING PROGRAM

All students whose assessments indicate a need for remediation are eligible for a continuum of services provided through the literacy program. (Wydown Middle School faculty consults with the high school Reading Specialists and recommends the best options for eligible freshmen.) The Reading Specialists serve as consultants for teachers and students, teach small group classes for specific remediation of reading skills (Academic Reading I & II), and co-teach classes within the general course offerings. Many students who no longer require daily reading instruction can receive support from the Learning Center staff and strengthen their study skills. Some students may require more intensive support from the Special School District faculty if found to have a reading disability. Any additional diagnostic assessment is directed through the Reading Specialists.

INDEPENDENT LEARNING ENDEAVOR (ILE)

The Independent Endeavor (ILE) is an elective class for identified gifted learners that will allow students to independently research a personal area of interest. Students will work independently, but will conference regularly with the Gifted Specialist and with cohort/peers in ILE. Students will complete a project, and the results of their research will be presented to the Gifted Specialist, the student's mentor/expert in the related field of study, and the other members of the class.

VOCATIONAL AND TECHNICAL PROGRAMS

Vocational and technical education programs are provided on a half-time basis beginning in 11th grade, at metropolitan vocational-technical high schools. A wide variety of programs are available. Interested students should discuss plans with their counselor early in 10th grade. Most programs are selective, so early application is advised. Interested students must meet the basic graduation requirements at CHS during the 9th and 10th grade years since most of 11th and 12th grade is focused on a specific area of vocational training. Regardless of specialization, technical school graduates receive high school diplomas that are recognized by colleges if graduates want to continue their formal education. No fee is charged for technical school, and transportation is provided for all.

COLLABORATIVE SCHOOL

In conjunction with the school districts of Ladue and Brentwood, Clayton offers an alternative program of regular and special education for students. Located at an off-campus site, the program has been designed for students who need credit recovery, students on long-term suspensions, students with repeated short-term suspensions, students with chronic attendance problems, or students at high risk for dropping out of school. In this program, each student receives three hours of daily academic programming where computer-assisted instruction is individualized to meet individual student needs. Students enrolled in this program earn credits toward a high school diploma. Students and their families may receive more information by contacting the school counselor.

FOUR-YEAR PLANNING SHEET by Grade Level

GRADE 9	GRADE 10	GRADE 11	GRADE 12
ENGLISH	ENGLISH	ENGLISH	ENGLISH
SOCIAL STUDIES	SOCIAL STUDIES	(American Government Required / U.S. & Missouri Constitutions Must Be Passed) SOCIAL STUDIES	
SCIENCE	SCIENCE	SCIENCE	
MATHEMATICS	MATHEMATICS	MATHEMATICS	
ONE UNIT FINE ART REQUIRED			
ONE UNIT PRACTICAL ART REQUIRED (Must include ½ unit of Personal Finance or Financial Management)			
PHYSICAL EDUCATION/ HEALTH	PHYSICAL EDUCATION/ HEALTH	PHYSICAL EDUCATION	
LUNCH	LUNCH	LUNCH	LUNCH

GRADUATION REQUIREMENTS = 24 CREDITS TOTAL

4 units in English 3 units in Social Studies (.5 Am. Govt., 1.0 U.S. History required) 3 units in Science 3 units in Math	1 unit in Fine Arts 1 unit in Practical Arts (½ unit of Personal Finance or Financial Management required) 1 unit in Physical Education** 1/2 unit in Health 7 1/2 units of Electives
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**** Physical Education is completed at the rate of 1/4 unit per semester.
Physical education grades are included in the grade point average.**