

MACLAY

UPPER SCHOOL CURRICULUM GUIDE 2026-27



UPPER SCHOOL COURSE LIST 2026-2027

ENGLISH:

- English I (Honors or Pre-AP)
- English II (Honors or Pre-AP)
- Honors English III
- Honors English IV: Contemporary Lit
- Honors English IV: Southern Literature
- Honors English IV: Film as Literature (Hollywood Cinema)
- Honors English IV: Mystery & Detective Lit
- Honors English IV: Graphic Literature
- Honors English IV: Film as Literature (Film Genres)
- AP English Language & Composition
- AP English Literature & Composition
- Creative Writing: Literary Magazine
- Holocaust Literature & Film
- Journalism I
- Honors Journalism: Newspaper
- Honors Journalism: Yearbook
- Public Speaking & Communications

MATHEMATICS:

- Honors Algebra I
- Honors Geometry
- Algebra II (Honors or Pre-AP)
- Honors Statistics
- Honors Pre-Calculus
- AP Pre-Calculus
- AP Calculus AB
- AP Calculus BC
- Differential Equations I (TSC)
- Calculus with Analytic Geometry III (TSC)
- AP Statistics

NATURAL SCIENCES:

- Biology (Honors or Pre-AP)
- Chemistry (Honors or Pre-AP)
- AP Biology
- AP Chemistry
- Honors Physics
- AP Physics C: Mechanics
- AP Physics C: Electricity & Magnetism
- Honors Marine Biology
- Honors Principles of Biomedical Sciences
- Honors Medical Interventions
- Honors Biomedical Capstone
- Honors Anatomy and Physiology
- Honors Geology

VISUAL & PERFORMING ARTS:

- Art Foundations
- Drawing
- Painting
- Ceramics/Pottery I
- Honors Ceramics/Pottery II
- Digital Photography & Design
- AP Art and Design
- AP Music Theory
- Theatre/Musical II

HISTORY & SOCIAL SCIENCES:

- Honors Geography
- Honors Modern World History & Geography
- Honors United States History
- Honors Contemporary U.S. Government & Political History
- Honors Economics w/Financial Literacy
- AP World History: Modern
- AP United States History
- AP Macroeconomics
- AP U.S. Government & Politics
- AP Human Geography
- AP European History
- AP African American History
- World War I & II
- Civil War
- Personal Finance
- Risk & Reward
- DECA
- Legal Issues
- Trial Advocacy

WORLD LANGUAGES:

- Honors Spanish I
- Honors Spanish II
- Honors Spanish III
- Honors Spanish IV
- AP Spanish Literature
- AP Spanish Language & Culture
- Honors French I
- Honors French II
- Honors French III
- Honors French IV
- AP French Language & Culture
- Honors Latin I
- Honors Latin II
- Honors Latin III
- Honors Latin IV
- AP Latin
- Classical Greek I

• Theatre/Musical III • Honors Theatre/Musical IV • Behind the Scenes: Costume & Make-Up • Behind the Scenes: Set Design & Construction • Strings I • Strings II – Concert Orchestra • Upper School Concert Orchestra (Strings II Band II) • Honors Strings III- Chamber Orchestra • Vocal Ensemble • Beginner Dance Technique • Intermediate Dance Choreography & Production • Advanced Dance Choreography and Production • Advanced Dance Performance and Competition Team	<u>COMPUTER SCIENCE & ENGINEERING:</u> • Competitive Robotics 1 • Honors Competitive Robotics 2 • Engineering 1: Design & Analysis • Engineering 2: Applications of Computer Science • AP Computer Science Principles: Mobile • AP Computer Science A • AP CK Cyber: Security <u>HEALTH & PHYSICAL EDUCATION:</u> • HOPE – FLVS • Strength Training <u>ELECTIVES:</u> • Study Hall & College Counseling Seminar • SAT Prep • Freshman SAT/Speech • Zero Period – Athletics <u>CONCENTRATIONS:</u> • STEM: Biomedical • STEM: Core Sciences • STEM: Computer Science & Engineering • Art, Inspiration & Design • Business & Entrepreneurship • Global Citizenship • Journalism & Graphic Arts PAGE 1 OF 2
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- Note:**
- ❖ Each course in each department will state its level of rigor beginning with General courses. Honors courses and Pre-AP courses are more intense and challenging curricula as they prepare students for Advanced Placement (AP) courses. AP courses are college-level courses following the curricula designed by the College Board, for which students may receive college credit. Each student taking an AP course will be required to take the AP exam in May.
 - ❖ Each course is a year-long course unless otherwise specified. Each year-long course equals 1.0 credit and each semester-long course equals ½ credit.
 - ❖ All elective courses are subject to cancellation if there is insufficient interest or change in faculty.

GRADUATION REQUIREMENTS

Academic Subject Area	Min. Credits Required
English	4
Mathematics (must include Algebra I, Geometry, and Algebra II)	4
Natural Science (must include Biology and Chemistry. Physics is recommended)	3
History/Social Science (must include Economics)	4
World Languages (must be the same sequential language, consecutive years)	2
Fine Arts	½
Health	½
Physical Education	½
Electives (must include 3 ½ credits of academic electives)	5 ½
Total Credits to Graduate	24

MY FOUR-YEAR ACADEMIC PLAN

Subject	COURSES TAKEN/PLANNED				
	HS Credits (Pre-9 th grade)	9th	10th	11th	12th
English (all years at Maclay)					
Mathematics (4 credits min.) Must include Algebra I, Geometry, & Algebra II					
Natural Sciences (3 Credits Min.) Must include Biology & Chemistry. Physics recommended					
History/ Social Sciences (4 Credits Min.) Must include Economics					
World Language (2 Credits Min.) Must be same language in sequential years					
Health ½ Credit Required					
Physical Education ½ Credit Required					
Fine Arts ½ Credit Required					
Computer Science and Engineering					

ENGLISH & LANGUAGE ARTS

English Department Policy: The English Department designates certain language arts skills to be mastered at each grade level. These skills will be taught throughout the year, and a test of skill mastery will be given. This assessment comes at the end of 9th, 10th, and 11th grades. Students who do not achieve mastery of skills designated at their grade levels will be required to complete additional remediation work over the summer and are recommended to attend summer school (if available) or to receive tutoring help.

Required Courses:

Completed	Grade	Course
	9	Honors English I or Pre-AP English I
	10	Honors English II or Pre-AP English II
	11	Honors English III or AP English Language & Composition
	12*	Honors English IV or AP English Literature & Composition

Academic Electives:

- ❖ Creative Writing: Literary Magazine
- ❖ Holocaust Literature and Film
- ❖ Journalism I
- ❖ Honors Journalism - Newspaper
- ❖ Honors Journalism – Yearbook

GRADE 9

Honors English I

- ❖ Literature includes study of classroom novels, classical drama, nonfiction, poetry, and short stories. A concentrated focus on expository writing will cover comprehensive grammar units as well as the basic modes of exposition. Standardized achievement test preparation and vocabulary skills will also be covered. This course seeks to develop the reading, writing, and thinking skills necessary for the study of English in the Upper School.

Pre-AP English I

- ❖ **Qualifications:**
 - Approval by Director of Freshman Academy and Department Chair
 - Exemplary standardized test scores in English (a score in at least the 75th percentile of cohort)
 - Exemplary performance on placement test

- Students who wish to enroll in Pre-AP English I but do not meet all of the requirements must schedule an appointment with the department chair to discuss their placement. These meetings must be scheduled after spring break and before the last day of the semester.

Pre-AP English 1 focuses on reading, writing, and language skills that are relevant to students' current work and essential for students' future high school and college coursework. Texts take center stage, preparing students for close, critical reading and analytical writing. The course trains readers to observe small details in a text to arrive at a deeper understanding of the whole. It also trains writers to create complex sentences—building this foundational skill enroute to sophisticated, longer-form analyses.

GRADE 10

Honors English II

- ❖ Literature includes a study of challenging texts in a variety of genres (fiction, nonfiction, poetry, and drama) and from a variety of cultures. Students will continue to practice active reading skills, focusing on vocabulary in context and literary-rhetorical techniques. English II includes a review of principles of grammar and composition and modes of essays covered in English I. New modes of composition include extended definition and argumentation/persuasion, with a full unit on research and bibliography skills. English II seeks to create students who more skillfully employ a wide range of strategies as they write and who more self-sufficiently use different writing process elements to communicate with different audiences for a variety of purposes (NCTE Standards).

Pre-AP English II

- ❖ **Qualifications:**
 - Departmental approval
 - Exemplary standardized test scores in English (A PSAT 8/9 score in the 85th percentile or greater on the Evidence-Based Reading and Writing section)
 - Current Honors students who wish to move up to an Pre-AP class, current Pre-AP students who do not meet the above qualifications, and all students new to Maclay who wish to enroll in Pre-AP English 2 must take a placement test and schedule an appointment with the department chair to discuss their placement. These meetings must be scheduled after spring break and before the last day of the semester.
- ❖ **Note:** *Recommended as a precursor to either AP English course.*
- ❖ Pre-AP English 2 builds on the foundations of Pre-AP English 1. While English 1 introduces the fundamentals of close observation, critical analysis, and the appreciation of author's craft, English 2 requires students to apply those practices to a new array of nonfiction and literary texts. As readers, students become aware of how poets, playwrights, novelists, and writers of nonfiction manipulate

language to serve their purposes. As writers, students compose more nuanced analytical essays while never losing sight of craft and cohesion.

GRADE 11

Honors English III

- ❖ This course includes a study of American literature in the context of the culture and history of the United States. Students read and analyze representative nonfiction, fiction, drama, and poetry as they continue to develop a more advanced understanding of how writers manipulate language to achieve many different purposes. Moreover, through their reading, students will build an understanding of texts, of themselves, and of the culture of the United States and the many dimensions of the human experience – philosophical, ethical, and aesthetic (NCTE Standards). This intensified writing course includes a review of outlining, grammar, and punctuation skills, with an increased focus on expert usage. Research techniques, including note cards, bibliography, in-text citations, and support for thesis culminate in two full-length research papers, one each semester.

AP English Language & Composition

- ❖ **Qualifications:**
 - Departmental approval
 - Exemplary standardized test scores in English (a score in at least the 85th national percentile on the Evidence Based Reading and Writing Section of the PSAT)
 - Current Honors students who wish to move up to an AP class, current Pre-AP students who do not meet the above qualifications, and all students new to Maclay who wish to enroll in AP English Language must take a readiness test and schedule an appointment with the department chair to discuss their placement. These meetings must be scheduled after spring break and before the last day of the semester.
- ❖ **Note:** *All students are required to take the AP exam in May.*
- ❖ AP English Language and Composition is an introductory college-level composition course. Students cultivate their understanding of writing and rhetorical arguments through reading, analyzing, and writing texts as they explore topics like rhetorical situations, claims and evidence, reasoning and organization, and style.

GRADE 12

(CHOOSE ONE YEAR-LONG COURSE OR TWO ONE-SEMESTER COURSES)

AP English Literature & Composition

❖ **Qualifications:**

- Departmental approval
- Exemplary standardized test scores in English (a score in at least the 85th national percentile on the Evidence Based Reading and Writing Section of the PSAT and/or a score of 3 or higher on the AP English Language and Composition exam)
- Current Honors students who wish to move up to an AP class, current AP English Language students who do not meet the above qualifications, and all students new to Maclay who wish to enroll in AP English Literature must take a readiness test and schedule an appointment with the department chair to discuss their placement. These meetings must be scheduled after spring break and before the last day of the semester.

❖ **Note:** *All students are required to take the AP exam in May.*

- ❖ AP English Literature and Composition is an introductory college-level literary analysis course. Students cultivate their understanding of literature through reading and analyzing texts as they explore concepts like character, setting, structure, perspective, figurative language, and literary analysis in the context of literary works

Honors English IV: Contemporary Literature

❖ **Offered:** *First semester only*

- ❖ This course surveys literature from different genres beginning in the early 1980s. We will examine diverse forms of contemporary literature, including films and other texts. Through writing, student-led discussions, and group presentations, students will explore the various manifestations of literature in our contemporary moment. Open to juniors and seniors only.

Honors English IV: Film as Literature (Hollywood Cinema)

❖ **Offered:** *First semester only*

- ❖ This course asks students to think and write critically about film as they would a literary text. Students will do this while also examining the history of American film, moving from the classical Hollywood era through to the “new” Hollywood up to and including our present cinematic moment. Class meetings will consist of film screenings and discussions of the viewed films. Following the completion of each film, students will develop and create a work of academic prose engaging with those films and the essential questions/ideas of the class. This course will provide students with the language to critically think about and discuss film as well as strengthening their visual literacy and everyday writing skills. Open to juniors and seniors only.

Honors English IV: Southern Literature

- ❖ **Offered:** *First semester only*
- ❖ This course will focus on major works of Southern literature from the 19th century to the present. Through literary analysis, discussion, and group presentations, we will examine how the literature of the American South explores issues of race, identity, geography, nostalgia, and history. Open to juniors and seniors only.

Honors English IV: Mystery & Detective Literature

- ❖ **Offered:** *Second semester only*
- ❖ This course considers the development and evolution of the mystery and detective fiction genres. We will begin by defining mystery and detective literature, reading works of early practitioners of these genres. Then our discussions will turn to 20th century mystery and detective literature, particularly the crime fiction of Raymond Chandler, Dashiell Hammett, and Walter Mosley. Finally, we will discuss postmodern “mysteries” that deal with the ongoing search for “truth” and “meaning” in our increasingly complex world. Open to juniors and seniors only.

Honors English IV: Graphic Literature

- ❖ **Offered:** *Second semester only*
- ❖ This course explores the evolution of comics as literature, specifically graphic novels as an effective form of storytelling. Students will read and critically analyze a variety of graphic texts, including Satrapi’s *Persepolis* and Moore’s *Watchmen*. Through close examination, text-based journaling, and guided discussion, students will consider the relationship between text features and images in meaning-making. Students will also compose their own graphic story. Open to juniors and seniors only.

Honors English IV: Film as Literature (Film Genres)

- ❖ **Offered:** *Second semester only*
- ❖ This course asks students to think and write critically about film as they would a literary text. Students will do so by considering a range of film genres (including but not limited to film noir, westerns, science-fiction, romantic comedy, and adventure) and examining the conventions of those genres, how directions follow those conventions, what they achieve by engaging with those conventions, and how they deviate from them. Class meetings will consist of film screenings and discussions of the viewed films. Following the completion of each film, students will develop and create a work of academic prose engaging with those films and the essential questions/ideas of the class. This course will provide students with the language to critically think about and discuss film as well as strengthening their visual literacy and everyday writing skills. Open to juniors and seniors only.

ENGLISH & LANGUAGE ARTS ACADEMIC ELECTIVES

Creative Writing: Literary Magazine

- ❖ **Offered:** *One Semester, offered both semesters, may be repeated*
- ❖ This workshop course will introduce students to the conventions and techniques of creative writing and literary publishing. By studying published works and by creating their own original works, students will develop their creative writing abilities. Students will engage with class discussions, present to the class once a quarter, keep a reading journal, and create a portfolio of work for the entire semester. Additionally, students will be required to submit work to and help publish the corresponding semester's issue of *Notes from the Underground*, Maclay's literary magazine.

Holocaust Literature & Film

- ❖ **Offered:** *One Semester, offered both semesters*
- ❖ This course encourages students to analyze a wide array of materials from many perspectives in historical context. Photographs, artwork, diary entries, letters, government documents, maps, poems, visual history testimony, and other source material help students construct an authentic and comprehensive portrait of the past as they frame their own thoughts about what they are seeing or reading, resulting in a deeper level of interest and inquiry.

Journalism I

- ❖ **Offered:** *First Semester Only*
- ❖ **Note:** This course serves as a prerequisite for the *Journalism Core Concentration*
- ❖ Journalism I introduces students to the world of the print and online media. Law, ethics and the history of journalism will complement the major units of study: reporting, writing, editing, photography, advertising and design. In addition, students will have the opportunity to use computer-aided publishing tools and other hands-on production tools as well as modern photo techniques.

Honors Journalism (Newspaper)

- ❖ **Prerequisites:** *Acceptance is by application and departmental approval.*
- ❖ Students are responsible for producing all aspects of the school's online and print newspaper, *The Andalusian*. Students will learn about and create content for both digital and print media outlets. Students will also learn and gain experience writing for different newspaper sections or beats (news, opinions, sports, features, etc.). Additionally, this year-long course will incorporate and help develop skills in design, photography, marketing, advertising, computer software and time management. This course is part of the Journalism & Graphic Design Concentration.

Honors Journalism (Yearbook)

- ❖ **Prerequisites:** Acceptance is by application and departmental approval.
- ❖ Note: This course can also count towards the Fine Arts credit requirement and is a part of the Journalism & Graphic Design Concentration
- ❖ Students are responsible for all aspects of producing the school's yearbook, *The Marauder*. This year-long class incorporates skill in design, writing, photography, marketing, advertising, computer software, time management and computer skills. Additionally, students will learn to write for newspapers and magazines.

Public Speaking and Communications

Public Speaking and Communication develops students' confidence and skill as speakers, writers, and thoughtful participants in academic and public discourse. Through the study of notable speeches and rhetorical techniques, students learn how language, structure, and delivery shape meaning and influence an audience. Students will analyze speeches, write and deliver original presentations, and participate regularly in both formal and informal class discussions. Because the course is performance-based, students should expect to speak frequently and engage actively each day. Assessment will focus primarily on speech performances, participation, and written work connected to rhetorical analysis and communication. Open to students in grades 9 through 12.

MATHEMATICS

All Upper School mathematics courses require a TI graphing calculator.

Required Courses:

Completed	Grade	Course
	8-9	Honors Algebra I
	8-10	Honors Geometry
	9-11	Algebra II (Honors or Pre-AP)

Academic Core Electives:

- ❖ Honors Pre-Calculus
- ❖ AP Pre-Calculus
- ❖ AP Calculus AB
- ❖ AP Calculus BC
- ❖ Differential Equations I (TSC)
- ❖ Calculus with Analytic Geometry III (TSC)
- ❖ Honors Statistics
- ❖ AP Statistics

ALGEBRA I

Honors Algebra 1 (Grades 7 – 9)

Algebra 1 develops students' understanding of linear, quadratic, and exponential relationships through problem solving and real-world application. Students write, solve, and graph multi-step linear equations and inequalities, analyze linear relationships, and model real-world situations using multiple forms of linear equations. They explore systems of linear equations and inequalities, and interpret graphs to understand slope, intercepts, and how these features represent and inform solutions to real-world problems.

Students also extend their work with expressions by performing operations with and factoring polynomials and then applying these skills to solve quadratic equations. Data analysis is incorporated through scatter plots, measures of center, and interpretation of data displays to analyze real-world contexts. Emphasis is placed on problem solving, reasoning, and using linear and quadratic functions to represent and analyze relationships. Prerequisites: completion of Pre-Algebra with a C- or higher. Other considerations for rising 7th-grade students include teacher recommendations, placement assessment, and True Progress Data.

GEOMETRY

Honors Geometry - (Grades 8 – 10)

Honors Geometry focuses on developing strong spatial understanding and advanced problem-solving skills through the study of geometric relationships. Students examine properties of lines, angles, triangles, quadrilaterals, and other polygons, and use coordinate methods to analyze and represent geometric figures. Transformations are used to explore congruence and similarity, including proportional reasoning and scale factors.

Students apply the Pythagorean Theorem, special right triangles, and trigonometric ratios to solve problems. The course also investigates circle relationships, area of two-dimensional figures, surface area, and volume of three-dimensional solids. Real-world applications are emphasized throughout to deepen conceptual understanding and prepare students for higher-level mathematics. Students who complete this course in 8th grade receive an Upper School credit which will be averaged into their Upper School GPA and appear on their transcript. Pre-requisites: Completion of Algebra 1 with a C- or higher. Other considerations for rising 8th-grade students include teacher recommendation, Algebra 1 End of Course Assessment, and completion of Algebra with a B- or higher.

ALGEBRA II

Honors Algebra 2

- ❖ **Qualifications** *Completion of Algebra I, Geometry*
- ❖ This course is designed to give students in-depth exposure to mathematical functions. Linear equations and inequalities and systems of linear equations and inequalities are studied. Quadratic functions and inequalities are thoroughly explored. Other topics include higher degree polynomial functions; radical expressions and equations; rational exponent expressions and equations; absolute value functions; and mathematical modeling.

Pre-AP Algebra 2

- ❖ **Pre-requisites:** *Completion of Honors Geometry , Teacher Recommendation, Exemplary* standardized test scores in Math (a PSAT score in at least the 80th percentile on the Math section), and Acceptable score on placement test.
- ❖ Students who wish to enroll in Pre-AP Algebra 2 but do not meet all of the requirements must schedule an appointment with the department chair to discuss their placement. These meetings must be scheduled after spring break and before the last day of the semester.
- ❖ Pre-AP Algebra 2 is a rigorous, year-long course designed by the College Board to prepare students for AP STEM courses by deepening conceptual understanding and procedural fluency in mathematics. The curriculum focuses on analyzing, graphing, and modeling with linear, quadratic, polynomial, exponential, logarithmic, and trigonometric functions.

MATHEMATICS ACADEMIC CORE ELECTIVES

Honors Precalculus

- ❖ **Qualifications** *Algebra 2*
- ❖ In the first semester, topics necessary for the study of calculus such as the natural logarithm, exponential functions, and writing equations of functions that describe real-life phenomena are studied. Parametric equations are introduced if time permits. During the second semester, the trigonometric and circular functions and their inverses are studied. Graphing, identities, equation solving, solving of triangles using the Law of Sines and Law of Cosines, linear and rotational velocity, simple harmonic motion, and modeling of real-life phenomena using trigonometric functions are covered. Additional applications of trigonometry such as vectors, polar coordinates and equations, trigonometric form of complex numbers, and DeMoivre's Theorem are covered.

AP Pre-Calculus

- ❖ Pre-Requisites: Completion of Pre-AP Algebra 2 and teacher recommendation along with standardized test scores
- ❖ Students who wish to enroll in AP Pre-Calculus but do not meet all of the requirements must schedule an appointment with the department chair to discuss their placement. These meetings must be scheduled after spring break and before the last day of the semester.
- ❖ **Note:** *This course can be taken concurrently with AP Statistics. The College Board AP PreCalculus course outline is used. All students are required to take the AP exam in May.*
- ❖ AP Pre-Calculus will have students algebraically manipulate functions, equations, and expressions. Students will translate mathematical information between representations, communicate with precise language, and provide rationales for conclusions.

AP Calculus AB

- ❖ *Pre-Requisites: Completion of Pre-Calc and teacher recommendation along with standardized test scores*
- ❖ Exemplary standardized test scores in Math (a PSAT score in at least the 80th percentile in math)
- ❖ Students who wish to enroll in AP Calculus but do not meet all of the requirements must schedule an appointment with the department chair to discuss their placement. These meetings must be scheduled after spring break and before the last day of the semester.
- ❖ **Note:** *This course can be taken concurrently with AP Statistics. The College Board AP Calculus course outline is used. All students are required to take the AP exam in May.*
- ❖ This is a course in basic differential and integral calculus of a single variable. It is concerned with developing the students' understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed geometrically, numerically, analytically, and verbally. The students and faculty regularly use technology.

AP Calculus BC

- ❖ *Qualifications AP Calculus AB or a 4 or greater on the AP Precalculus exam; Open to juniors and seniors only*
- ❖ **Note:** *All students are required to take the AP exam in May.*
- ❖ This course is for students who have completed AP Calculus AB. AB topics will be reviewed in the first four weeks of the first semester. The calculus of sequences and series, polar equations, vector equations, and parametric equations, logistic growth and decay, separable differential equations, and topics from the College Board AP Calculus BC outline will be added to the AP Calculus AB curriculum.

Differential Equations I (TSC)

- ❖ *Qualifications A score of 4 or better on the AP Calculus BC exam*
- ❖ **Offered: 1st Semester**

- ❖ **Note:** This course is offered through Tallahassee State College taught by an approved teacher on Maclay's campus. College credit will be earned. The credit may or may not transfer to another institution.
- ❖ Topics include methods of solutions of ordinary differential equations, linear and non-linear systems of differential equations and boundary value problems. Methods include operators, undetermined coefficients, variation of parameters, Laplace transforms and series solutions. There is also some use of a CAS (Computer Algebra System). A graphing calculator is required.

Calculus with Analytic Geometry III (TSC)

- ❖ **Qualifications** A score of 4 or better on the AP Calculus BC exam
- ❖ **Offered: 2nd Semester**
- ❖ **Note:** This course is offered through Tallahassee State College taught by an approved teacher on Maclay's campus. College credit will be earned. The credit may or may not transfer to another institution.
- ❖ Topics: vectors; equations of planes and lines in space; vector-valued functions (including unit tangent and unit normal vectors, velocity and acceleration of objects in space and curvature); multivariable functions; the differential and integral calculus of multivariable functions; and line and surface integrals, including Green's Theorem, the Divergence Theorem and Stoke's Theorem. CAS (Computer Algebra System) software will be introduced as a teaching and learning tool. A graphing calculator is required; check with instructor for the most appropriate one.

Honors Statistics

- ❖ **Qualifications** Algebra II open to seniors only
- ❖ This is an introductory course in probability, statistics, and data analysis. Topics covered include the language and vocabulary of statistics, data collection techniques, descriptive statistics, interpreting graphical displays of distributions of univariate data, summarizing and comparing distributions of univariate data, exploring categorical data, exploring bivariate data, correlation and regression, exploring discrete and continuous random variables, counting methods, probability theory including the binomial and Normal distributions. If time permits, we will cover units on sports analytics and multiple linear regression.

AP Statistics

- ❖ **Qualifications** *Algebra II*
- ❖ Exemplary standardized test scores in Math (a PSAT score in at least the 80th percentile or greater in math)
- ❖ Students who wish to enroll in AP Statistics but do not meet all of the requirements must schedule an appointment with the department chair to discuss their placement. These meetings must be scheduled after spring break and before the last day of the semester.
- ❖ **Note:** *This course can be taken concurrently with Pre-AP Pre-Calculus, AP Pre-Calculus or AP Calculus. All students are required to take the AP exam in May.*
- ❖ This course is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Topics covered are 1) exploring data: observing patterns and departures from data; 2) planning a study: deciding what and how to measure; 3) anticipating patterns: producing models using probability and simulation; 4) statistical inference: confirming models.

NATURAL SCIENCES

All Maclay students are required to take three high school level science courses including Biology and Chemistry.

Directed Independent Study (DIS) is available for accelerated students who wish to study science areas not available in the regular curriculum. See Department Chair for more information.

All students will be required to take a diagnostic exam, in class, for placement in biology and chemistry classes. These results are used with math and science grades, and standardized testing to determine students recommended future placement.

Required Courses:

Completed	Grade	Course
	9	Biology Honors
	9-10	Chemistry (Honors, or Pre-AP Honors)
	10-11	Science Elective (Physics Recommended)

Academic Core Electives:

- ❖ Pre-AP Biology
- ❖ AP Biology
- ❖ AP Chemistry
- ❖ Honors Physics
- ❖ AP Physics C: Mechanics
- ❖ AP Physics C: E&M
- ❖ Honors Geology
- ❖ Honors Marine Biology
- ❖ Honors Principles of Biomedical Sciences
- ❖ Honors Medical Interventions
- ❖ Honors Biomedical Capstone
- ❖ Honors Anatomy and Physiology

BIOLOGY

Pre-AP Biology (Grades 8 – 9)

While the Pre-AP Biology framework is organized into four core units of study, the content is grounded in four big ideas, which are cross-cutting concepts that build conceptual understanding and spiral throughout the course. These ideas cut across all four units of the course and serve as the underlying foundation for the enduring understandings, key concepts, learning objectives, and essential knowledge statements that make up the focus of each unit. The four big ideas that are central to deep and productive understanding in Pre-AP Biology are: The process of evolution drives the diversity and unity of life. Growth and reproduction in biological systems are dependent upon the cycling of matter and the transformation of energy. Biological systems, occurring at various scales, respond and adapt to stimuli in order to maintain dynamic homeostasis. Genetic mechanisms are essential to maintaining biological systems. Co-Requisite: Enrollment in Geometry -- Prerequisites: Placement into Pre-AP Biology is based on a combination of 7th or 8th grade science and math grades, True Progress data, and placement tests.

Honors Biology

- ❖ This course is designed to introduce students to the modern concepts of biology. The Honors Biology course includes lecture, laboratory investigations, critical thinking activities and individual and group research opportunities. Topics covered include the molecular basis of life, basic cell biology, comparative physiology and anatomy of eukaryotic organisms, mitosis, meiosis, genetics, and evolution.

CHEMISTRY

Honors Chemistry

- ❖ **Prerequisites:** *Biology*
- ❖ The macroscopic and microscopic aspects of the world of chemistry are uncovered through laboratory experiences, problem solving exercises, lecture, and cooperative learning. Students are encouraged to reexamine concepts introduced in previous science classes and to construct new ideas about the nature and behavior of the world around them. Topics covered include atomic structure, chemical composition, chemical reactions, physical and chemical properties, organic molecules, and stoichiometry.

Pre-AP Chemistry

- ❖ **Prerequisites:** Honors Biology, Honors Geometry. Consideration of placement into Pre-AP Chemistry is based on a combination of 9th grade science and math grades, placement test score, and standardized testing. Students who wish to enroll in Pre-AP Chemistry but do not meet all of the criteria

must schedule an appointment with the department chair to discuss their placement. These meetings must be scheduled after spring break and before the last day of the semester.

- ❖ In Pre-AP Chemistry, students develop a deep conceptual understanding of matter and energy at the molecular level as they learn to explain their macroscopic observations using particulate-level reasoning. As students engage in grade-level content, they utilize scientific reasoning skills needed to analyze the natural world—and to succeed in future science and social science courses in high school and college.

PHYSICS

Honors Physics

- ❖ **Prerequisites:** *Biology, Chemistry, and Algebra II.*
- ❖ This year long course is a conceptual introduction to physics. The aim of the course is to prepare the student for further science courses through the study of concepts such as motion, momentum, energy, gravity, waves, heat, light, magnetism, and electricity. Laboratory and quantitative problem-solving activities are employed. Problem solving activities focus on the understanding of concepts. The nature and scope of the relationships between physics, engineering, and the other sciences are emphasized.

NATURAL SCIENCES ACADEMIC CORE ELECTIVES

AP Biology

- ❖ **Prerequisites:** *An A- in Pre-AP Biology, A in Honors Chemistry or A- in Pre-AP Chemistry, and departmental approval. May be taken concurrently with Pre-AP Chemistry. A placement test and meeting with the department chair are required for all students who do not meet the prerequisites.*
- ❖ **Note:** *All students are required to take the AP Exam in May.*
- ❖ This course is a high school course designed to be equivalent to a two-semester college introductory biology course for biology majors. Students cultivate their understanding of biology through inquiry-based investigations, as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions.

AP Chemistry

- ❖ **Prerequisites:** *An A- in Pre-AP Chemistry, completion of Algebra II, departmental approval. A placement test and meeting with the department chair are required for all students who do not meet the prerequisites.*
- ❖ **Note:** *All students are required to take the AP Exam in May*
- ❖ This course is a high school course designed to be the equivalent to a two-semester college introductory chemistry course for chemistry majors. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore content such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium.

AP Physics C: Mechanics

- ❖ **Corequisite:** AP Calculus AB, Honors or Pre-AP Chemistry.
- ❖ **Note:** All students are required to take the AP Exam in May.
- ❖ This year long course is equivalent to a semester-long calculus-based, college-level physics course. The course is designed for highly motivated, able students. It seeks to foster deep conceptual understanding through the use of student-centered, inquiry based instructional practices. Topics covered include kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation. Laboratory work is an integral component of this course. Technology, including graphing calculators, graphing and data analysis software, and physics apparatus, is used throughout this course.

AP Physics C: Electricity & Magnetism

- ❖ **Prerequisites:** AP Calculus AB and AP Physics C: Mechanics
- ❖ **Note:** All students are required to take the AP Exam in May.
- ❖ The continuation of the AP physics C curriculum. It is the equivalent of a second semester calculus based introductory physics course. Topics which are included fit into 6 units focusing on ideas often associated with electricity and magnetism: Electrostatics, Capacitance, Basic Circuits, Magnetism, and Electromagnetic Waves.

Honors Geology

- ❖ **Offered:** First Semester Only
- ❖ This unique student-led course takes a fun, conceptual approach to geology, the branch of science that deals with the Earth - its structure, composition, and the processes that act on it. This course is designed to give students an introduction to major topics found in geology: petrology, mineralogy, geotectonics, seismology, structural geology, geomorphology, volcanology, and stratigraphy. Labs, projects, class discussions, and guest speaker days are incorporated into the curriculum.

Honors Marine Biology

- ❖ **Offered:** Second semester only
- ❖ **Prerequisites:** Biology and Chemistry
- ❖ This course is designed to introduce the student to Marine Biology, Marine Ecology, and Marine Science. Areas of study include marine ecosystems, plants and animals, and oceanography.

Honors Principles of Biomedical Science

- ❖ **Prerequisite:** Open to freshmen and sophomores only
- ❖ **Note:** This course is required for the Biomedical Concentration.
- ❖ In this full year course, students explore concepts of biology and medicine as they take on roles of different medical professionals to solve real-world problems. Over the course of the year, students are challenged in various scenarios including investigating a crime scene to solve a mystery, diagnosing, and proposing treatment to patients in a family medical practice, to tracking down and containing a medical outbreak at a local hospital, stabilizing a patient during an emergency, and collaborating with others to design solutions to local and global medical problems.

Honors Medical Interventions

- ❖ **Prerequisite:** Honors Principles of Biomedical Sciences
- ❖ **Note:** This course is required for the Biomedical Concentration.
- ❖ Medical Interventions (MI) is a year-long course that allows students to investigate the variety of interventions involved in the prevention, diagnosis, and treatment of disease as they follow the lives of a fictitious family. A “How-To” manual for maintaining overall health and homeostasis in the body, the course will explore how to prevent and fight infection, how to screen and evaluate the code in our DNA, how to prevent, diagnose, and treat cancer, and how to prevail when the organs of the body begin to fail. Through these scenarios students will be exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

Honors Biomedical Capstone

- ❖ **Prerequisite:** Honors Medical Interventions (MI)
- ❖ **Corequisite:** AP Biology
- ❖ Biomedical Capstone is a year-long course that prepares students for the Biomedical Assistant Credential Exam given by the University of Florida. Students will focus on the pharmaceutical development process and best practices. Additionally, students will implement their skills and content knowledge from PBS and MI to engage in an open-ended research experience to complete a capstone project of their own interest. Project completion and attempting the BACE exam result in the completion of the biomedical concentration.

Anatomy and Physiology

- ❖ **Prerequisite:** Honors Biology
- ❖ Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis in the body. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

HISTORY & SOCIAL SCIENCES

History Department Policy: *The History Department Policy is for students to be active readers and writers by going beyond simply completing assignments for credit. History Department courses will require students to use primary and secondary sources to compare and contrast, examine cause and effect, and analyze the impact of change over time. Additionally, students will be expected to write in ways that communicate their ideas effectively.*

Required Courses

Completed	Grade	Course
	9	Honors Geography or AP Human Geography
	10	Honors Modern World History & Geography or AP World History: Modern
	11	Honors United States History or AP United States History
	12	US Government (Honors or AP) and Economics (Honors or AP)

History Academic Core Electives

- ❖ AP European History
- ❖ AP Human Geography
- ❖ AP African American History
- ❖ AP U.S. Government & Politics
- ❖ AP Macroeconomics
- ❖ World War I & II
- ❖ Civil War

Social Science Academic Electives

- ❖ DECA
- ❖ Personal Finance
- ❖ Risk and Reward
- ❖ Intro to Psychology
- ❖ Theories of Personality
- ❖ Abnormal Psychology
- ❖ AP Psychology
- ❖ Contemporary Issues
- ❖ Trial Advocacy

GRADE 9

Honors Geography

- ❖ This course will explore the people, the world, and how the two interact, while also preparing freshmen for the rigors of the Upper School's college preparatory curriculum. This will be accomplished by focusing on active reading skills and notetaking skills. This will allow students to delve deeper into content material while learning how to manage and organize information. These skills will be developed through topics such as population dynamics, culture, agriculture, sustainability, and more.

AP Human Geography (9th Grade Section)

- ❖ **Prerequisites:**

- A+ average in eighth-grade History
- Exemplary standardized test scores in English (a score in at least the 85th percentile of cohort)
- Exemplary performance on placement test
- Departmental approval

- ❖ **Note:** *All students are required to take the AP exam in May.*

- ❖ This course will be exploring the people, the world, and how the two interact, while also preparing Freshmen for future AP courses in the history department. Students will learn test-taking tips for AP style questions, while also learning how to be active readers at an AP level. Students will explore topics such as population dynamics, culture, urbanization, sustainability, and more. Students will leave this class with a better understanding of global issues and current events.

GRADE 10

Honors Modern World History & Geography

- ❖ This class begins with the Age of Discovery and the impact of the Columbian Exchange, then moves into the Enlightenment, nationalism, industrialization, imperialism, the emergence of communism and fascism, and the World Wars. Class work will continue the history department's focus on developing students' writing, note-taking, critical thinking, and active reading skills. Students will also spend considerable time analyzing world geography.

AP World History: Modern

- ❖ **Prerequisites:**
 - A- average in AP Human Geography or A+ average in Honors Ancient History & Geography
 - Exemplary standardized test scores in English (A PSAT 8/9 score in the 85th percentile or greater on the Evidence-Based Reading and Writing section)
 - Departmental approval
- ❖ **Note:** *All students are required to take the AP exam in May.*
- ❖ This course seeks to provide students with an understanding of the world's history and societies. In addition to examining the major trends, people, places and events of the world's history, special emphasis will be placed on encounters and interactions among societies. It will help students expand their reading and writing skills, and it will foster critical thinking. The course will encourage students to develop their own abilities and to be part of the learning process. The long-term objective is for students to demonstrate an understanding of how the big picture of world history assists in understanding the complexities of today's world.

GRADE 11

Honors United States History

- ❖ This course is a survey of the United States covering from the framing of the Constitution through the Great Depression. Topics covered include the Constitutional Convention, Jeffersonian Democracy, the Supreme Court, Monroe Doctrine, Jacksonian Democracy, Manifest Destiny, Immigration, the Civil War, Reconstruction, Industrial America, the Gilded Age, the Progressive Era, the Age of Imperialism, World War I, the 1920s, and the Great Depression. Class work will continue the history department's focus on developing students' writing, note-taking, critical thinking, and active reading skills. This will be facilitated through the use of secondary and primary sources.

AP United States History

❖ **Prerequisites:**

- A- average in AP World History or an A+ average in Honors World History & Geography
- Exemplary standardized test scores in English (a score in at least the 85th national percentile on the Evidence Based Reading and Writing Section of the PSAT)
- Departmental approval

❖ **Note:** *This course is open only to juniors. All students are required to take the AP exam in May. Class size is limited. *This course exempts the requirement to take the Honors Contemporary U.S. Government and Political History course. Students taking AP U.S. History must, therefore, take an additional semester of history elective and economics (usually in their senior year) in order to meet the History Department's requirements.*

❖ This is a college-level U.S. history course. Students cultivate their understanding of U.S. history from the pre-Columbian Era to the 21st century through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures. This is a labor intensive course that **REQUIRES** exceptional time management skills coupled with above average active reading skills. Class size is limited.

GRADE 12 -GOVERNMENT (REQUIRED)

Honors Contemporary U.S. Government & Political History

❖ **Offered:** *One Semester, Offered Both semesters*

❖ **Note:** *Students may be exempted from this requirement upon previous completion of AP US History.*

❖ This course dissects American history through the evolution of the role of government and its institutions from 1877 through the end of the 20th Century. Students will gain a deeper understanding of how the American government functions and its relationship with its people. Students will analyze these issues as they study the political process, civic engagement, and social movements. Students will continue to focus on developing their active reading, writing, note-taking, critical thinking, and active reading skills. This will be facilitated through the use of secondary and primary sources.

AP United States Government & Politics

❖ **Prerequisites:**

- AP U.S. History is strongly recommended but not required.
- A- average in AP U.S. History or an A+ average in Honors U.S. History
- Exemplary standardized test scores in English (a score in at least the 85th national percentile on the Evidence Based Reading and Writing Section of the PSAT and/or a score of 3 or higher on the AP English Language and Composition exam)
- Departmental Approval

❖ **Offered:** *Only offered first semester*

❖ **Note:** *This course is offered to only Seniors and Juniors. All students are required to take the AP exam in May. Class size is limited.*

- ### ❖
- This course is designed to provide students with a learning experience equivalent to an introductory college course in American Government. Students will study the U.S. Constitution and its foundations in the current political system. Students will become familiar with individuals, ideas, and groups that influence the government. This course is designed to provide students with the information necessary to become active participants in the American system of government.

GRADE 12- ECONOMICS (REQUIRED)

Honors Economics with Financial Literacy

❖ **Offered:** *One Semester, Offered Both semesters*

- ### ❖
- This senior level course is a study of the basic concepts of economics which are essential for keeping up with both historical and current economic changes. This course will assist a student's understanding of capitalism through discussions about supply and demand, banking and personal finance, the business cycle, the tools of monetary and fiscal policy, and its impact on the global trade economy. Students will also gain a working knowledge of banking and personal finance in order to better understand his/her role in the economy. These aspects along with continual analysis of current economic indicators make this course particularly relevant to everyday life and deepen the understanding of the causes and effects of economic changes.

AP Macroeconomics

❖ **Prerequisites:**

- AP U.S. History is strongly recommended but not required.
- A- average in AP U.S. History or an A+ average in Honors U.S. History
- Exemplary standardized test scores in English (a score in at least the 85th national percentile on the Evidence Based Reading and Writing Section of the PSAT and/or a score of 3 or higher on the AP English Language and Composition exam)
- Departmental Approval

❖ **Offered:** Only offered second semester

❖ **Note:** This course is offered to Seniors. Juniors may take this course with History Department approval **ONLY**. All students are required to take the AP exam in May.

❖ This course seeks to give students a thorough understanding of the principles of economics that apply to an economic system. The course will also introduce the concept of the business cycle to give students an overview of economic fluctuations and to highlight the dynamics of unemployment, inflation, and economic growth. Emphasis is placed on the study of national income and price-level determination. This course will also develop students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics.

HISTORY ACADEMIC CORE ELECTIVES

AP European History

❖ **Note:** This course is offered to Seniors only. Juniors will have to apply to the History Department for approval. All students are required to take the AP exam in May.

❖ This course is a college-level introductory European history course. Students cultivate their understanding of European history by analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like the interaction of Europe with the rest of the world, economic and commercial developments, cultural and intellectual developments, states and other institutions of power, social organization and development, national and European identity, as well as technological and scientific innovation.

AP Human Geography

❖ **Note:** This course is offered to Seniors and Juniors. All students are required to take the AP exam in May. Class size is limited.

❖ This course is all about exploring the people, the world, and how the two interact, while also preparing Freshmen for future AP courses in the history department. Students will learn test-taking tips for AP style questions, while also learning to read at an AP level. We explore all sorts of topics like population dynamics, culture, urbanization, sustainability, and more. Students will leave this class

with a better understanding of global issues, current events, and how to make the world a better place.

AP African American History

- ❖ **Note:** *This year-long course is offered to Seniors and Juniors. All students are required to take the AP exam in May.*
- ❖ AP African American Studies is an interdisciplinary course that examines the diversity of African American experiences through direct encounters with rich and varied sources. Students explore key topics that extend from early African kingdoms to the ongoing challenges and achievements of the contemporary moment.

HISTORY ELECTIVES

World War I & II

- ❖ **Offered:** *First semester only*
- ❖ **Note:** *This course is open to Seniors and Juniors. Sophomores will ONLY be admitted with History Department approval.*
- ❖ World War II had a profound political, economic, social, and scientific impact on world history. The course shows how World War I set the stage for another world war, the causes and growth of European fascism, Communism, and Japanese ultra-nationalism, and immediate events leading up to the war. Detailed study will be made of the war's military campaigns, peoples, and home fronts using primary and secondary readings, Socratic lecture, project presentations, field trips, military simulations, and World War II music and multi-media.

Civil War

- ❖ **Offered:** *Second semester only*
- ❖ **Note:** *This course is open to Seniors and Juniors. Sophomores will ONLY be admitted with History Department approval.*
- ❖ An in-depth exploration of America's greatest tragedy. This course examines antebellum America's struggle over slavery, and the causes, major military campaigns, home fronts, and ultimate impacts of the Civil War on American society. Special emphasis will be placed on nineteenth century culture, the lives of famous combatants, lessons in leadership, and period military tactics and weapons. The course material will be conveyed using Socratic lecture, primary and secondary sources, period music, project presentations, and multi-media presentations. Field trips, immersion activities, and military simulations are also important components of this class.

SOCIAL SCIENCE ACADEMIC ELECTIVES

DECA

❖ **Prerequisites:** *Juniors and Seniors Only*

❖ **Offered:** *Offered Both Semesters*

DECA is a student-centered elective that prepares emerging leaders and entrepreneurs for careers in marketing, finance, hospitality, and management. Course goals will be accomplished through classroom learning, competitive events, and real-world business experiences, all while developing leadership abilities and entrepreneurial mindset.

Personal Finance

❖ **Offered:** *One Semester, Offered Both Semesters*

❖ **Note:** *This course is open to Seniors and Juniors. Sophomores must obtain department approval.*

❖ This course will be the foundation of money and how money works. This financial literacy class is specifically focused on basic personal finance skills that are relevant to the lives of teens and young adults. Financial literacy is essential in meeting the financial challenge of the 21st Century. The competencies, which form the basis for this semester course, enable students to analyze their personal financial decisions, evaluate the costs and benefits of their decisions, recognize their rights and responsibilities as consumers, and apply the knowledge learned in school to financial situations encountered later in life.

Risk & Rewards

❖ **Prerequisites:** *Intro to Entrepreneurship or Personal Finance*

❖ **Offered:** *One Semester, Offered Both Semesters*

❖ **Note:** *This course is open to Seniors only. Juniors must obtain department approval.*

❖ This course introduces students to basic principles of macroeconomics, the risks and rewards associated with investment and business, key principles for running a successful company and managing an effective stock market portfolio, how to maximize rewards and minimize risks, and the lessons of financial failure/loss/and recovery. The course culminates in a final six-week real world entrepreneurial experience where students will invest small shares of the school's investment funds in a stock market portfolio and/or a pre-approved personal business.

Legal Issues

❖ **Offered:** **Spring Semester Only**

❖ **Prerequisite:** None

❖ **Note:** Legal Issues is modeled after a college-level Introduction to Criminal Justice course. It explores the role of law in society and the various subsystems that comprise the criminal justice process. Throughout the Mod, we will incorporate material from history, sociology, philosophy, psychology, political science, and other disciplines. By the end of the course, students will be able to evaluate laws and legal institutions in relation to equality, justice, and fairness.

Trial Advocacy

- ❖ Prerequisite: None
- ❖ Fall Semester Only
- ❖ This course will provide students with a general knowledge and understanding of the judicial process and basic civil and criminal procedures. It will develop organizational skills and understanding of conflict resolution through application of law. It will provide opportunities to practice constructing and testing logical arguments. It will develop litigation, public speaking, and critical thinking skills. It will facilitate team building skills and understanding of how the adversary system works in a competitive setting. Students will have an opportunity to participate in Mock Trial.

WORLD LANGUAGES

The World Languages Department feels that all students should be exposed to all facets of languages and culture. This includes history, language acquisition, and culture. In view of the globalism of our current society, acquisition of another language is a critical asset for today's youth. This skill would afford a competitive edge for those vying for a position in any job market. **All new students to Maclay must take the placement test.** Students may choose which language to study: Spanish, French, Latin, or Greek.

SPANISH

Completed	Required Courses
	Honors Spanish I
	Honors Spanish II

Additional Spanish Courses:

- ❖ Honors Spanish III
- ❖ Honors Spanish III
- ❖ Honors Spanish IV
- ❖ Honors Spanish Conversation
- ❖ AP Spanish Language & Culture

FRENCH

Completed	Required Courses
	Honors French I
	Honors French II

Additional French Courses:

- ❖ Honors French III
- ❖ Honors French IV
- ❖ AP French Language & Culture

LATIN

Completed	Required Courses
	Latin I
	Honors Latin II

Additional Latin Courses:

- ❖ Honors Latin III
- ❖ Honors Latin IV
- ❖ AP Latin
- ❖ Classical Greek I

REQUIRED SPANISH COURSES

Honors Spanish I

- ❖ This is an introductory course focusing on listening and speaking with an emphasis on reading and writing skills. The course includes beginning vocabulary in a variety of situations, basic grammatical structures, and verb conjugations. Culture from a variety of Spanish-speaking countries is introduced.

Honors Spanish II

- ❖ **Prerequisites:** *B+ average or higher in Spanish I and departmental approval*
- ❖ This course is designed to follow Spanish I and will challenge the more motivated students. Students will be challenged from day one to master the previous content and move forward to study grammar in an explicit as well as applied format. The course will interact with the history of Spain and Latin America to offer an application of liberal arts education to the study of language and culture. The class will be conducted in Spanish as much as possible and will provide a grammatical basis for students seeking to continue in Spanish, and emphasizes skills in conversational speaking, listening, writing, and reading and lead to Pre-AP Spanish III.

SPANISH ACADEMIC ELECTIVES

Honors Spanish III

- ❖ **Prerequisites:** *Spanish II and departmental approval*
- ❖ **Note:** *This class will not prepare students to continue in Pre-AP Spanish IV.*

- ❖ This course is designed to follow Spanish II. Students review vocabulary and basic grammar and continue to add more complex usage and more sophisticated grammar structures. Listening, speaking, reading, and writing skills will continue to be emphasized. Most of the course will be taught in Spanish. Culture topics and readings are presented to give an authentic view of the Hispanic world. To help students develop proficiency with their interpersonal speaking skills in Spanish, they will be required to complete 3-4 conversations via the Talk Abroad program.

Honors Spanish III

- ❖ **Prerequisites:** *A- average in Honors Spanish II and departmental approval*
- ❖ **Note:** *This course is taught primarily in Spanish.*
- ❖ This class focuses on allowing students to implement much of the vocabulary and grammar mastered in Honors Spanish II. Students will learn more complex structures within the language. Listening, speaking, reading, and writing skills are emphasized as these more sophisticated grammar structures are implemented. Culture study and short narratives provide reading practice appropriate at this level. While students will be pushed to use the language at a higher proficiency level, Pre-AP Spanish III is considered a “bridge year” that will help students transition from the skills learned in Honors Spanish II to the skills needed in Pre-AP Spanish IV. Considering this transition, the second semester of the course will be taught primarily in Spanish and students will be expected to speak in Spanish during most of the class time. To help students develop proficiency with their interpersonal speaking skills in Spanish, they will be required to complete 3-4 conversations via the TalkAbroad program.

Honors Spanish IV

- ❖ **Prerequisites:** *Pre-AP Spanish III or faculty recommendation*
- ❖ **Note:** *This course is taught in Spanish and will lead to AP Spanish Language & Culture.*
- ❖ This course is an advanced course that seeks to interact primarily with the literature and visual art of Spain from the Medieval Age to present day, though other Hispanic art and literature may be studied as well. The course is conducted in mostly Spanish but emphasizes skills in reading and writing. Through this medium, we explore advanced grammar, history, and philosophy. This course is heavily inspired by the AP Spanish Literature course, but is designed to be more approachable, and more suitable for students arriving to advanced study. It is designed to prepare students for the AP Spanish Language and Culture course but enriching regardless of the student’s intention to move forward.

AP Spanish Language & Culture

- ❖ **Prerequisites:** *Pre-AP Spanish IV*
- ❖ **Note:** *All students are required to take the AP exam in May and will be capped at 12.*

- ❖ The three modes of communication—Interpretive, Interpersonal, and Presentational—defined in the World Readiness Standards for Learning Languages, are foundational to the AP Spanish Language and Culture course. The AP course provides students with opportunities to demonstrate their proficiency in each of the three modes in the Intermediate to Advanced range, as described in the ACTFL Performance Descriptors for Language Learners. As such, the course has been designed to provide students with a rich and rigorous opportunity to study the language and culture of the Spanish-speaking world.
- ❖ The AP Spanish Language and Culture course takes a holistic approach to language proficiency and recognizes the complex interrelatedness of comprehension and comprehensibility, vocabulary usage, language control, communication strategies, and cultural awareness. Students will review language structures in context and will use them to convey meaning. Language structures will be addressed according to how they serve the communicative task and not as an end goal unto themselves.
- ❖ The AP Spanish Language and Culture course strives to promote both fluency and accuracy in language use and avoid overemphasis on grammatical accuracy at the expense of communication. In order to best facilitate the study of language and culture, the course will be taught primarily in the target language.

AP Spanish Literature

- ❖ **Prerequisites:**
AP Spanish Language & Culture OR Honors Spanish 4 with instructor permission OR placement test.
- ❖ **Note:** *All students are required to take the AP exam in May and will be capped at 12.*
- ❖ This AP level course is an advanced course that seeks to interact primarily with the literature and visual art of Spain from the Medieval Age to present day, though other Hispanic art and literature may be studied as well. The course is conducted in mostly Spanish but emphasizes skills in reading and writing. Through this medium, we explore advanced grammar, history, and philosophy. This course is recommended to be taken after the AP Spanish Language & Culture course in sequence.

REQUIRED FRENCH COURSES

French I

- ❖ This is an introductory course focusing on listening comprehension and speaking skills, as well as reading and writing skills. The course includes beginning vocabulary in a variety of real-life contexts, basic grammatical structures, and verb conjugations. Students will learn about culture in France and a variety of francophone countries. Students will be able to hold a basic conversation and read/write French throughout the course.

Honors French II

- ❖ **Prerequisites:** *French I or departmental approval*

- ❖ Students will review and continue to use skills acquired in French I. We will build on our foundational work and continue to add verb tenses and a variety of high frequency and situational vocabulary words. Special attention will be paid to speaking, listening, reading and writing activities. Culture will be included throughout the year. At the conclusion of this class, students will be prepared to take French III with departmental approval.

FRENCH ACADEMIC ELECTIVES

Honors French III

- ❖ **Prerequisites:** *Honors French II or departmental approval*
- ❖ **Note:** *The course is designed to prepare the students for Pre-AP French IV and AP French courses and is taught primarily in French.*
- ❖ This course provides an in-depth study of grammar while enriching the scope of vocabulary and authentic cultural exposure. Culture and literary passages are studied with the goal of improving reading, oral, and listening comprehension. Authentic resources will be used often, and students will have ample opportunity to express themselves in spoken and written French.

Honors French IV

- ❖ **Prerequisites:** *Pre-AP French III or departmental approval*
- ❖ **Note:** *The course is taught in mainly in French and designed to lead into AP French Language and Culture.*
- ❖ This course introduces students to French and francophone literature and culture through short video clips, short films and literary works. Listening, speaking, reading, and writing skills are emphasized. More advanced vocabulary and grammar is presented and is to be used in all skills mentioned above.

AP French Language & Culture

- ❖ **Prerequisites:** *Pre-AP French IV or departmental approval*
- ❖ **Note:** *All students must take the AP exam in May.*
- ❖ The primary goal of this course is to help students develop a greater fluency in French, in both written and spoken communication. To this end, vocabulary, grammar, syntax, and style are explored through a variety of different materials, including newspaper and magazine articles, literary texts, and other non-technical writings, which will eventually be read and discussed without dependence on a dictionary. In addition, the students will develop an ability to express themselves coherently, resourcefully, and accurately in both written and spoken French. Spoken communication is explored through materials drawn from a variety of audio and video recordings, while subjects for discussion

may come from virtually any French/francophone source. Finally, the writing of engaging, clear, concise, and organized compositions will also be emphasized.

REQUIRED LATIN COURSES

Latin I

- ❖ This course is an introduction to the Latin language, culture and history. Latin, with its unique patterns of inflection and syntax, and the acquisition of an extensive vocabulary, are the major focus of the course whose goal is the ability to read and translate effectively. Roman customs and culture, mythology, and English word derivations supplement the linguistic focus of the course.

Honors Latin II

- ❖ ***Prerequisites:*** *Latin I or departmental approval*
- ❖ This course is a continuation of Latin I. By the end of the second semester, the student will have acquired all the grammatical knowledge necessary for the reading of original Latin texts. Extensive vocabulary development and experience in reading passages of increasing difficulty in mythology and Latin literature leave the student well equipped to approach the world of Caesar, Cicero, or Vergil. The course is supplemented with a focus on Roman history and culture, mythology, and English derivatives.

LATIN ACADEMIC ELECTIVES

Honors Latin III

- ❖ ***Prerequisites:*** *Honors Latin II and departmental approval*
- ❖ This course is an introduction into reading original, unmodified Latin. The focus is on improving reading skills. The class will have a continuous review of all grammar and vocabulary learned in Latin I and II combined with extensive reading of several Latin authors. The student should leave Pre-AP Latin III well prepared for Pre-AP Latin IV or AP level work the following year.

Honors Latin IV

- ❖ ***Prerequisites:*** *Pre-AP Latin III and departmental approval*
- ❖ This course is a continuation of reading original, unmodified Latin. The focus is on improving reading skills for those students not wishing to take AP until their senior year. The class will have a continuous review of all grammar and vocabulary learned in Latin I and II combined with extensive reading of several Latin authors in their original form. The student should leave Pre-AP Latin IV well prepared for AP level work the following year.

AP Latin

- ❖ **Prerequisites:** Pre-AP Latin IV, Pre-AP Latin III, or Honors Latin II with departmental approval and completion of or enrollment in an AP English class
- ❖ **Note:** All students are required to take the appropriate AP exam in May.
- ❖ This is a college-level Latin translation course. We will adhere to the AP Latin syllabus and read selections from Vergil's Aeneid and Caesar's De Bello Gallico. The course will be a year-long translation course with refresher grammar and vocabulary units spaced throughout the year.

Classical Greek I

- ❖ This course is an introduction to the Classical Greek language. Classical Greek, with its unique patterns of inflection and syntax, and the acquisition of an extensive vocabulary, are the major focus of the course. The principal course goal is the ability to read and translate. Classical Greek customs and culture, mythology, and English word derivations supplement the linguistic focus of the course.

COMPUTER SCIENCE

The Computer Science department at Maclay School offers courses that teach industry standard software coupled with state-of-the-art, cutting-edge technology and digital skills. With the understanding that Computer Science encapsulates many fields, students engage in courses ranging from simple engineering to mobile application development and advanced software coding. A student involved in Maclay's Computer Science program will be prepared for practical application within their classes across disciplines as well as different opportunities in digital industries.

Academic Computer Science Courses

- ❖ Advanced/Competitive Robotics I
- ❖ Advanced/Competitive Robotics 2
- ❖ AP Computer Science Principles: Mobile
- ❖ AP Computer Science A
- ❖ AP CK Cyber: Security

Competitive Robotics I

- ❖ **Prerequisites:** None, **Grades:** 7-12
- ❖ Duration: One Semester (can be repeated)
- ❖ Full-Year Course: Designed for 7-12 grade students who have a solid understanding of basic robotics concepts and are interested in taking their skills to the next level. This course focuses on preparing

students for competitive robotics events, specifically the FIRST TECH CHALLENGE (FTC). Students will enhance their knowledge of advanced robotics principles, engineering design, computer aided design (CAD), 3D printing, programming, documentation, and teamwork in the process of preparing for the various challenges and tournaments – the ultimate Project Based Learning experience. Students will be expected to participate in the different robotics tournaments held throughout the year. This course prepares students for competitive robotics events and provides essential skills for pursuing careers in engineering, robotics, computer science, and technology.

Honors Competitive Robotics 2

- ❖ Grade Level: 8-12
- ❖ Course Duration: One Semester (can be repeated)
- ❖ Full-Year Course: Designed for 8th - 12th grade students who have taken the Advanced/Competitive Robotics I course or who have participated on the competitive, after-school robotics club. This course builds on the skills necessary students need for competitive robotics events, specifically the FIRST TECH CHALLENGE (FTC). Students will enhance their knowledge of advanced robotics principles, custom design builds, testing procedures, game strategy, engineering design, computer aided design (CAD), 3D printing, programming, documentation, and teamwork. Students will be expected to participate in the different robotics tournaments held throughout the year. This course prepares students for competitive robotics events and provides essential skills for pursuing careers in engineering, robotics, computer science, and technology.

Engineering I: Design & Analysis

- ❖ **Prerequisites:** None, **Grades:** 9-12
- ❖ Duration: year
- ❖ Note: A dual-enrollment opportunity exists for all students enrolled in Engineering Design. The University of Texas System Institutions provides this opportunity. The application and enrollment process begins in the fall and additional coursework for accepted applicants begins in the spring. Students are notified of dual-enrollment admissions decision in December.
- ❖ This course is strongly recommended for students who plan to seek a degree in the fields of engineering, science, mathematics, computer or information science. ² This course strives to engage students in authentic engineering practices and embrace engineer's habits of mind. Collaborative, student-directed projects work to build resilient problem-solving skills and empower students to think like engineers, adopt engineering processes and allow them to explore the many roles engineers serve while trying to better our world.

Engineering II: Applications of Computer Science

- ❖ **Prerequisites:** 9-12 Completion of Engineering 1
- ❖ Duration: Year

- ❖ An engineering course that engages students in **programming and computational thinking** to solve human-centered, technically challenging projects at the intersection of engineering and computer science. The goal of this course is to engage students in meaningful versions of the practices of professional engineers and computer scientists while sparking a passion for engineering, computational thinking, and problem-solving that will serve all students no matter what their future career goals may be.

AP Computer Science Principles: Mobile

- ❖ **Prerequisites:** Algebra II and departmental approval
- ❖ **Note:** Students are required to take the AP exam in May. This course is strongly recommended for students who plan to seek a degree in the fields of engineering, science, mathematics, computer or information science.
- ❖ This course offers students a broad view of computing, including problem solving, working with data, understanding the Internet, cyber-security, and programming while building socially useful mobile apps. Those who take this course are required to fulfill all the requirements as stipulated by the College Board.

AP Computer Science A

- ❖ **Prerequisites:** Algebra II and departmental approval
- ❖ **Note:** Students are required to take the AP exam in May. This course is strongly recommended for students who plan to seek a degree in the fields of engineering, science, mathematics, computer, or information science.
- ❖ This course emphasizes object-oriented programming methodology using Java. It is meant to be the equivalent of an introductory college-level course in Computer Science. Those who take this course are required to fulfill all requirements as stipulated by the College Board for the current year.

AP CK Cyber: Security

- ❖ **Prerequisite:** AP Computer Science Principles: Mobile or AP Computer Science A or Teacher Approval
- ❖ AP CK Cyber: Security is a broad introduction to the field of cybersecurity that aligns closely with a standard first year collegiate introductory cybersecurity course. Students learn about common threats and vulnerabilities, and how those combine to create risk. Students study the ways that individuals and organizations manage risk, and how risk can be mitigated through a defense-in-depth strategy. Students explore specific vulnerabilities, attacks, mitigations, and detection measures across a variety of domains including physical spaces, computer networks, devices, and data and applications. Throughout the course students consider the impact of cybersecurity on individuals, organizations, societies, and governments. Students also engage in a through-course project in which they investigate emerging trends in cybersecurity including the rising role of AI, virtualization, hardware & IoT, and how trends like BYOD and WFH are expanding the attack surface.

VISUAL & PERFORMING ARTS

Maclay School firmly believes that each student, in order to succeed, should have exposure to the wonderful world of the fine arts. We require each student to take at least one semester of a fine arts course to graduate from Maclay. Students planning to participate in Fine Arts classes should refer to the prerequisites listed in the course descriptions. Certain courses may require specific materials (sketchbook, camera, instruments, etc.) Please note that not all Fine Arts classes require prerequisite courses.

Non-Academic Visual Arts Courses

- ❖ Drawing
- ❖ Painting

Academic Visual Arts Courses

- ❖ Ceramics/Pottery I
- ❖ Ceramics/Pottery II
- ❖ Digital Photography
- ❖ Graphic Design
- ❖ AP Art & Design

Academic Performing Arts Courses

- ❖ AP Music Theory
- ❖ Theatre I – Foundations of Theatre Arts
- ❖ Theatre II
- ❖ Musical Theatre

Non-Academic Performing Arts Courses

- ❖ Concert Band
- ❖ Strings I
- ❖ Strings II – Concert Orchestra
- ❖ Vocal Ensemble
- ❖ Beginner Dance Technique
- ❖ Intermediate Dance Choreography and Production
- ❖ Advance Dance Performance and Competition Team

NON-ACADEMIC VISUAL ARTS COURSES

Drawing

- ❖ **Offered:** One Semester, Offered Both semesters 8-12th grade

- ❖ **Prerequisite:** *Foundations of Art or department approval*
- ❖ An introductory studio course designed to build fundamental drawing skills while exploring a range of traditional media. Students develop observational accuracy, proportion, value, and composition through work in pencil, charcoal, pen, and marker. Instruction emphasizes technical foundations, mark-making techniques, and material control. Through structured studies and finished works, students gain confidence in expressing themselves artistically.

Painting

- ❖ **Offered:** *One Semester, Offered Both semesters 8th-12th grade*
- ❖ **Prerequisite:** *Foundations of Art or departmental approval*
- ❖ An introductory painting course focused on developing foundational skills across a variety of media and techniques. Students explore watercolor, gouache, and acrylic while learning color theory, brush handling, layering methods, and surface preparation. Projects emphasize craftsmanship, color mixing, spatial depth, and expressive application. By working across multiple painting mediums, students build technical proficiency and an understanding of how material choices impact visual outcomes. Through structured studies and finished works, students gain confidence in expressing themselves artistically.

ACADEMIC VISUAL ARTS COURSES

Ceramics/Pottery I

- ❖ **Offered:** *One Semester, Offered Both semesters*
- ❖ **Prerequisite:** *Foundations of Art, Art Appreciation, or departmental approval*
- ❖ In this class there is special emphasis placed on the development of basic technique for throwing vessels on the potter's wheel. Artisanry, creativity, and an appreciation for the elements that are inherent to well-made functional pottery are emphasized in this class. Students will learn how to finish their pieces with diverse types of glaze and firing techniques. The terminology and definitions of materials and ceramic processes as well as art history of ceramics will be presented.

Ceramics/Pottery II

- ❖ **Offered:** *Second semester only*
- ❖ **Prerequisite:** *Foundations of Art or Art Appreciation, Ceramics/Pottery I, and departmental approval*
- ❖ In this class the focus is on the refinement of technique while using the potter's wheel, the origin and properties of ceramics, raw materials, and intricacy of glaze research. This class is designed to allow advanced ceramic students to work on developing a personal expression in clay.

Digital Photography & Design

- ❖ **Offered:** First semester
- ❖ **Prerequisite:** Foundations of Art, Art Appreciation, or departmental approval
- ❖ This class will include studies on the camera and its functions as well as fundamentals of composition, exposure, and lighting. Students must supply their own DSLR camera. If you are unable to supply your own, there are a limited supply of class cameras.

AP Art & Design

- ❖ **Prerequisites:** Portfolio submission AND departmental approval Prospective students should arrange a meeting with the AP Art & Design teacher to discuss why this class is important to them achieving their future academic and career goals as limited seating is available.
- ❖ **Note:** Students will be required to submit their AP Portfolio in May. This course may be repeated if a different portfolio is submitted.
- ❖ This class is designed for artistically gifted upper classmen. Students who take this class should be interested in studying visual arts at the university level. It follows the AP Art & Design program outline presented by the College Board in **AP 2-D Art & Design, AP 3-D Art & Design, or AP Drawing**. In lieu of an exam, students are required to submit a portfolio to the College Board for evaluation in May.

ACADEMIC PERFORMING ARTS COURSES

AP Music Theory

- ❖ **Prerequisites:** Basic ability to read music and approval by instructor
- ❖ **Offered:** Yearlong course
- ❖ **Note:** Note: This is an advanced course intended for serious musicians. It is strongly recommended that students have at least four years of experience performing classical music before enrolling. Students are required to take the AP Exam in May.

AP Music Theory is a rigorous course equivalent to the first semester of college-level music theory. The course develops a deep understanding of the structure and syntax of Western tonal music through the study of music part writing techniques of the master composers.

Students will learn to analyze, hear, and write music with fluency. Core topics include tonal harmony, voice leading, part-writing, harmonic progression, phrase structure, and formal design. Equally important are the development of advanced aural skills and musicianship, including sight singing and melodic and harmonic dictation. The course emphasizes disciplined preparation and daily engagement. Students are expected to practice sight singing regularly, complete written theory work with precision, and actively participate in analytical discussion of musical scores. By the end of the course, students will be able to read, write, hear, and critically analyze music at a level consistent with first-year conservatory and university study. Any

questions regarding the course or a student's readiness for the curriculum should be directed to Mr. Aaron Seiler at aseiler@maclay.org

Behind the Scenes: Set Design & Construction

- ❖ **Offered: Semester**
- ❖ Prerequisite: None
- ❖ Bring stories to life by building the worlds they take place in! This hands-on course explores the fundamentals of set design, model building, and stage construction for theater and film. Students will learn drafting, painting, and carpentry techniques to create immersive environments. This course provides the skills to turn imagination into reality behind the scenes.

Behind the Scenes: Costume & Make-Up

Prerequisite: None

- ❖ Step into the world of theatrical transformation! This hands-on course explores the art and craft of costume design and stage makeup, bringing characters to life from concept to creation. Students will learn the fundamentals of costume history, fabric selection, and design techniques while also mastering makeup application for theater, film, and special effects. Whether you dream of working on stage productions or film sets, this course will give you a backstage pass to the magic of costume and makeup artistry!

Theatre I – Foundations of Theatre Arts

- ❖ **Offered: One Semester, Offered Both semesters**
- ❖ This course is designed for the student interested in learning and developing basic acting skills, with an emphasis on participation, collaboration, and performance. A wide variety of dramatic experiences will be covered including pantomime, characterization, improvisation, ensemble acting (scene work), roles in the theatre, theatre history, the reading of plays, theatre design and tech, and attendance at a live theatre performance. Students will be involved every class in some performance-based activity. Students will create projects throughout the semester in groups/teams just as they would encounter in the professional theatre world.

Theatre/Musical Theatre II & III

- ❖ **Offered: Full Year**
- ❖ **Prerequisite: Theatre/Musical Theatre I or departmental approval.**
- ❖ This course offers an in-depth study of theatre and musical theatre performance for high-school students seeking to refine their artistic skills. Students engage in acting techniques, character analysis, script interpretation, vocal training, and movement for the stage. Emphasis is placed on

developing a disciplined creative process, building ensemble trust, and strengthening individual performance abilities. In the musical theatre component, students explore healthy vocal production, harmony work, musical storytelling, audition technique, choreography, and stylistic performance across genres. Students will also gain exposure to elements of production such as directing, design, and technical theatre, encouraging a well-rounded understanding of the collaborative art form. Emphasis is placed on developing a supportive classroom ensemble and building the foundational skills needed for further study. Students in this class are eligible for membership into the International Thespian Society and will participate in competitions as well as a full-scale musical production.

Honors Theatre/Musical Theatre IV

- ❖ **Offered:** Full Year
- ❖ **Prerequisite:** 11th & 12th Theatre/Musical Theatre III or departmental approval.
- ❖ This honors level course is designed for highly committed theatre students with strong foundational skills who are ready to step into more challenging material and who are seeking intensive, pre professional training in musical theatre performance. This is an intensive, performance driven course designed for students with prior training who are ready to refine their artistry and elevate their professional readiness. This class emphasizes advanced technique, character development, ensemble collaboration, and stylistic versatility across musical theatre genres and preparing students for collegiate programs, auditions, and professional opportunities. Through challenging repertoire, master-class-style coaching, competitions and performance, students develop the skills, discipline, and confidence required for advanced stage work. Students enrolled in this class are eligible for membership into the International Honor Thespian Society.

NON-ACADEMIC PERFORMING ARTS COURSES

Strings I

- ❖ **Offered:** Yearlong
- ❖ **Note:** This course satisfies the fine arts credit requirement if taken for two semesters.
- ❖ This course is open to beginning violin, viola, cello, and bass players with one year or less of experience. In US Strings I we will establish all the strings fundamentals: correct playing position and bow hold, music literacy, ensemble skills, and home practice techniques. Through daily exercises, games, and performance of a variety of musical styles, we will learn to play beautifully and confidently. Students will have the opportunity to perform together throughout the year at school concerts. US Strings I is a fantastic steppingstone to future participation in Concert Orchestra.

Strings II – Concert Orchestra

- ❖ **Offered:** Yearlong
- ❖ **Note:** This course satisfies the fine arts credit requirement if taken for two semesters.
- ❖ This course is open to string instrument players with at least two years of orchestra experience/private instruction. Placement in Concert Orchestra is by audition and at the discretion of the director. The Concert Orchestra is one of the advanced performing ensembles at the Maclay School and focuses on taking students to a collegiate level. Daily technique drills and a broad variety of musical styles will be used to further advance all aspects of musicianship. Students will perform regularly in school concerts as well as in outreach events for the Tallahassee community. The Orchestra will have the opportunity to compete in district and state MPA while individuals will be encouraged to audition and participate in district, all-state, and summer orchestra festivals.

Upper School Concert Orchestra (Strings II / Band II)

This course is open to string, woodwind, brass, and percussion students with at least two years of instrumental study and/or ensemble experience. Placement is by audition and at the discretion of the director. Combining Strings II and Band II, this ensemble provides a unified, intermediate-to-advanced performance experience focused on strengthening foundational technique and advancing overall musicianship. Students will develop core skills including tone production, intonation, rhythmic accuracy, articulation, and instrument-specific techniques, reinforced through daily exercises, scale work, and diverse repertoire spanning classical and contemporary styles.

Emphasis is placed on ensemble skills such as balance, blend, listening, and musical expression, while fostering discipline, collaboration, and performance confidence. The ensemble will perform in school concerts and community events throughout the Tallahassee area, with opportunities to participate in district and state Music Performance Assessments (MPA). Students are also encouraged to audition for honor ensembles such as All-District and All-State and to pursue additional musical opportunities beyond the classroom.

Honors Strings III– Chamber Ensemble

- ❖ **Offered:** Yearlong
- ❖ **Note:** Placement in Chamber Ensemble is by audition and at the discretion of the director, requiring a minimum of two years of orchestra experience or private instruction.

The Maclay Chamber Ensemble is one of the premier performance groups at Maclay School, designed for advanced musicians looking to refine their artistry. Through intensive technique drills and a diverse repertoire, students will deepen their musicianship and explore challenging chamber music literature. This small, highly motivated ensemble focuses on advanced musical interpretation and collaboration, preparing students to tackle demanding compositions from the great composers. Members will perform regularly at school concerts and outreach events throughout the Tallahassee community. The Maclay Chamber Ensemble will

also have the opportunity to compete at district and state MPA. Students will be encouraged to audition for district, all-state, and summer orchestra festivals to further challenge themselves.

For more information, please contact Mr. Aaron Seiler at aseiler@maclay.org

Vocal Ensemble (Glee)

- ❖ **Offered:** Both semesters, may be repeated
- ❖ **Note:** This course satisfies the fine arts credit requirement if taken for two semesters.
- ❖ This course will touch on voice production fundamentals: correct posture, use and control of breath, placement and development of tone, diction (vowels and consonants), and vocal expression. A variety of popular musical styles including musical theater excerpts will be studied and performed. May include special lectures by faculty and guest artists.

Beginner Dance Technique (Dance/ PE Level 1)

- ❖ **Note:** *Fulfills Graduation Requirement for Visual/Performing Arts or PE.*
- ❖ This class is designed for beginner dance student. Students will learn/ practice the basics of dance while learning to create and express themselves through improvisation, composition, and performance. Students study several styles of dance in their historical and cultural contexts, including ballet, modern, jazz, hip-hop, jazz/funk, tap and various cultural genres. Students will perform in school productions. The Beginner Dance Technique class will: Perform with the Dance Preparatory in the Winter Showcase and the Spring Showcase

Intermediate Dance Choreography and Production (Dance/PE Level 2)

- ❖ **Prerequisite:** *Audition or Instructor Approval.*
- ❖ **Note:** *Fulfills Graduation Requirement for Visual/Performing Arts or PE.*
- ❖ This class is designed for intermediate students. Students create and express themselves through improvisation, composition, and performance. Students study several styles of dance in their historical and cultural contexts, including ballet, modern, jazz, hiphop, jazz/funk, tap and various cultural genres. Students analyze, compare and contrast their work and critique their development. Students will choreograph and perform in productions. The Intermediate Dance class will: Perform with the Dance Preparatory in the Winter Showcase and Perform with the Spring Showcase

Advanced Dance Performance and Competition Team (Level 3 National Honors Society of Dance Arts)

- ❖ **Prerequisite:** *Audition or Instructor Approval. Must earn and maintain a cumulative 3.0 GPA for NHSDA Induction.*
- ❖ **Note:** *Fulfills Graduation Requirement for Visual/Performing Arts or PE.*

- ❖ This class is designed for advanced dance students. Students create and express themselves through improvisation, composition, and performance. Students will perform in several styles of dance in their historical and cultural contexts, including ballet, modern, jazz, hip-hop, jazz/funk, and various cultural genres. Students analyze, compare, and contrast their work and critique their artistic development. The Advance Dance class will perform as a part of the Dance Preparatory in the Winter Showcase and Perform with the Spring Showcase as well as participating in a regional dance competition. Students enrolled in this class are eligible for membership into the National Honors Society of Dance Arts (NHSDA). These inducted students will earn honor cords for their graduations and will be able to have the honor on all college applications. It is strongly encouraged to participate in outside training in ballet and contemporary dance genres to compete at this level.

HEALTH & PHYSICAL EDUCATION

Health Opportunities through Physical Education (HOPE), offered to our 8th Graders, fulfills the Health and PE credit requirement.

If a student plays two seasons of a sport, this will also fulfill the health and physical education requirement.

However, if a student has not taken HOPE or does not play a sport, please contact your academic advisor.

*Required Courses**

Completed	Course
	HOPE - FLVS (1/2 Credit)
	Physical Education: Strength Training (1/2 Credit)

PHYSICAL EDUCATION

H.O.P.E. (Health Opportunities through Physical Education) Upper School Credit for 9th Graders

This course is designed to help students develop the knowledge and habits needed to make healthy lifestyle choices and maintain lifelong physical fitness. Through a combination of physical activity and health education, students will learn how daily decisions impact their overall well-being. The course takes a comprehensive approach to wellness by combining movement, personal health education, and practical life skills. In addition to physical fitness activities, students will explore important health topics such as injury prevention and safety, internet safety, nutrition, personal health, disease prevention, and substance use awareness. The course also addresses topics that support students' emotional and social wellbeing, including resiliency, healthy relationships, and the prevention of teen dating violence.

Strength Training

- ❖ **Offered:** Both semesters, may be repeated
- ❖ This course is designed to increase participant strength, for both general fitness and the demands of specific sports. Students will learn strength training principles and techniques and will apply their learning in a variety of modes, including free weights, plyometrics, and hill resistance drills. Students will have the opportunity to help design and follow a strength-training program tailored to their

individual needs. Progress will be measured through evaluations of strength at regular intervals throughout the semester.

OTHER ELECTIVES

Electives & Required Courses

- ❖ Study Hall
- ❖ SAT Prep (required 9-week)
- ❖ Zero Period – Athletics

Study Hall

- ❖ **Offered:** *Both semesters, May be repeated*
- ❖ Students may not have more than one period of study hall in a semester. Students are free to work in their assigned study hall or visit an approved location within the Upper School unless they are placed on restrictions by administration or by request of parents.

SAT Prep

9-week SAT Prep Course is designed to equip Upper School students with the strategies, skills, and confidence needed to perform at their best on test day. This course offers a focused, supportive environment where students strengthen core competencies in reading, writing, and math while becoming familiar with the structure and pacing of the digital SAT.

Through targeted instruction, guided practice, and full-length timed assessments, students learn proven test-taking strategies, time management techniques, and approaches to reduce test anxiety. Individual performance insights help students identify areas for growth and track progress throughout the course.

Zero Period – Athletics

- ❖ **Offered:** *Both semesters, May be repeated*
- ❖ Student Athletes can use this time for working out. Approval must be obtained from Coach Boatfield and the corresponding student athlete's coach. This class will meet Monday, Tuesday, Thursday, and Friday at 7:00 am – 8:00 am.

CONCENTRATIONS

STEM TRACK (BIOMEDICAL, CORE SCIENCE, COMPUTER SCIENCE, ENGINEERING & ROBOTICS)

Maclay School has established an interdisciplinary STEM Concentration for rising 10th grade students who relish the study of science, technology, engineering, and mathematics. This concentration consists of a core set of interdisciplinary requirements that are augmented by advanced courses in one of three tracks, each containing relevant coursework that lies along one of the many paths that can be followed leaving Maclay. In addition, students are asked to participate in one of several extracurricular activities that complement the program. Participants must also attend a manageable selection of related events. The underlying goal is to equip graduating students with a range of experiences that prepare them for further opportunities in these fields, while also completing all their graduation requirements. Students who successfully complete all requirements for a Concentration will be recognized at graduation. At all levels, the curriculum is enhanced by contact with health professionals:

- ❖ Demonstrations & lectures,
- ❖ Health facility & college tours, field trips
- ❖ Internships

STEM Core Requirements:

These courses are required of all students seeking this concentration, regardless of the track chosen.

Mathematics (4 Credits)	Science (2 Credits)
❖ Geometry (Honors or Pre-AP) ❖ Algebra II (Honors or Pre-AP) ❖ Pre-AP Pre-Calculus/Trigonometry ❖ AP Calculus AB	❖ Biology (Honors or Pre-AP) ❖ Chemistry (Honors or Pre-AP)

BIOMEDICAL SCIENCES

The biomedical track is an innovative, hands-on program of study designed for students who want to design innovative solutions for the health challenges of the 21st century. Students will work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, microbiology, biomedical engineering, and public health. Students will have the opportunity to work on an independent project with a mentor or advisor from a university, hospital, research institution, or the biomedical industry.

Additional Required Courses for this track: (4 credits)

- ❖ Principals of Biomedical Science
- ❖ Human Body Systems (PBS Prerequisite)
- ❖ Medical Interventions (PBS and HBS Prerequisite)
- ❖ AP Biology

CORE SCIENCES

For students who intend to pursue a career in a STEM related field with a focus on scientific research, we have developed the core sciences track that puts them in a position to enter college with advanced preparation for their intended field of science.

Class of 2025

Additional Required Courses for this track: (4 credits)

- ❖ AP Physics C: Mechanics
- ❖ AP Biology
- ❖ AP Chemistry
- ❖ AP Calculus BC or AP Statistics

Beginning with the class of 2026

Additional Requirements

- ❖ AP Calculus BC or AP Statistics
- ❖ Two of the following:
 - AP Physics C: Mechanics
 - AP Biology
 - AP Chemistry
- ❖ Capstone project: Successful completion of an experiment from design to presentation. Select one of the following presentation options:
 - Submission of a written final product to a peer-reviewed academic journal
 - Prepare a poster presentation
 - Competition in the regional science and engineering fair

COMPUTER SCIENCE & ENGINEERING

For students who are interested in Computer Science or Engineering, we have developed the Computer Science and Engineering track that puts them in position to enter college with advanced preparation in the fields of Computer Science and/or Engineering.

Additional Required Courses for this track: (4 credits)

- ❖ Honors Physics or AP Physics C: Mechanics or AP Physics C: E&M
- ❖ Three of the following courses
 - AP CK Cyber Security (or for classes of '26 or '27 - Programming and Cyber Security)
 - AP Computer Science A
 - AP Computer Science Principles
 - Engineering Design and Analysis
- ❖ Completion of Capstone Project - must be approved by concentration sponsor (beginning with Class of 2026)

BUSINESS & ENTREPRENEURSHIP

The Business and Entrepreneurial Concentration is designed to help students who have an interest in the business and financial world and who want to gain knowledge on how to successfully become global entrepreneurs and business leaders.

- ❖ **Requirements:** These courses are required of all students seeking this concentration, regardless of the track chosen.

Mathematics (4 Credits)	History (3 Credits)
❖ Geometry (Honors or Pre-AP) ❖ Algebra II (Honors or Pre-AP) ❖ Pre-Calculus/Trigonometry	❖ Honors Modern World History and Geography or AP World History ❖ Honors U.S. History or AP U.S. History ❖ Honors Contemporary U.S. Government and Political History ❖ Honors Economics with Financial Literacy or AP Macroeconomics
World Language (2 Credits)	
❖ Spanish, Latin, or French	

Additional Course Requirements

- ❖ Introduction to Entrepreneurship
- ❖ Personal Finance
- ❖ Risk and Reward
- ❖ Completion of Capstone Project

GLOBAL CITIZENSHIP

The Global Citizenship Concentration is designed as an interdisciplinary program of study that integrates world language study with classes such as World History, Art History, Science and Social Justice. Through the lens of the GCC, students will understand the global nature of our society and be well positioned to begin collegiate studies in a wide range of fields such as International Relations, Global Politics, Economics, and the Humanities. Beginning in 2025, students will be required to complete a travel component, service hours and a Capstone Project.

Core Requirements

- ❖ Minimum Four Sequential Years of a World Language

Additional Requirements for this concentration:

❖ **Global Initiative Courses (3 Credits)**

- AP European History
- AP Human Geography
- AP World History: Modern
- Holocaust Literature and Film
- Honors Art and Social Justice
- World War II
- Additional Courses To Be Determined by the Concentration Director.

❖ **Global Mindset:**

- Active and Dedicated Member of one of the following clubs:
 - Multicultural Awareness Club
 - Model UN
 - French Honor Society
 - Le Cercle Français
 - Junior Classical League
 - Spanish Honor Society
- Purposeful World Travel as of 2025
- Community Service Hours – Global in their impact, essay may be required
- Capstone Project requires the approval of the Concentration Director.

JOURNALISM & GRAPHIC ARTS

Core Requirements

- ❖ Required Courses (B Average):
 - Foundations of Art
 - Journalism I

- Art Appreciation or Digital Photography (Recommended Prerequisite)
- Two Sequential Years in Journalism: Newspaper, Journalism: Yearbook, or Video Production*

*Video Production would require a capstone project (prior review and approval by teacher and Board of Review)**

Goals for Concentration

Certification in Adobe InDesign and Adobe Photoshop

Apprenticeships, Internships, and Partnerships

ARTS, INSPIRATION, AND DESIGN

The Arts, Inspiration, and Design Concentration has been created for students who wish to showcase their

talent, mastery and experience in the visual and creative arts. Students who discover a passion for a specific medium can explore their passion in two categories: 2D Studio Art or 3D Studio Art. Please be aware classes with a ** are a 9-week mod course. You will need to take two of these courses to equal 0.5 credits.

Core Requirements (2 Credits)

AP Art & Design (2-D Art, 3-D Art, or Drawing) or Honors Design Collaboration

Art Appreciation

The Artist's Blueprint: Laying the groundwork for future artistic development.**

Picturing Language: A Window to Culture: Supporting language learning through visual art & culture.**

STEM Through a Creative Lens: A class where artistic foundations support scientific thinking.**

The Art of Storytelling: Exploring visual storytelling as a bridge between art, history, and literature.**

Additional Required Courses for this track (2 credits):

2-D Studio Art Courses:

2D Studio Art I

2D Studio Art II

Graphic Design

Digital Photography

Urban & Wild: Painting Landscapes in Watercolor & Gouache**

Gilded Visions: The Art of Portraiture & The Human Form**

Timeless Forms: Architecture & Nature in Acrylic & Oil**

Water & Wonder: The Art Nouveau Approach to Living Subjects**

The New Vanguard: From Concept to Creation**

Galleries & Graphics: The Business of Art**

Art Portfolio Incubator: A Focused, Growth-Driven Space for Portfolio Development

3-D Studio Art Courses:

Ceramics/Pottery I

Ceramics/Pottery II

Additional Required Participation (2 events) Events:

Come Together Art Exhibition

US Art Shows (Speak to US Visual Arts Teachers about participating)

Capstone:

The completion of this Arts, Inspiration and Design concentration will be a capstone project. This project will be mutually agreed upon and communicated with the Visual Arts Department. This will mark a significant milestone in showcasing the culmination of student's artistic journey throughout high school their high school art experience.