

MACLAY

UPPER SCHOOL CURRICULUM GUIDE 2023-24



MACLAY SCHOOL

Be Inspired. Be Determined. Be Unstoppable.

MACLAY UPPER SCHOOL LEADERSHIP

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Note:

- ❖ Each course in each department will state its level of rigor beginning with General courses. Honors courses and Advanced Honors 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	Minimum Credits Required
English	4
Mathematics (must include Algebra I, Geometry, and Algebra II)	4
Natural Science (must include Biology, Chemistry, and Physics)	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

UPPER SCHOOL COURSE LIST 2023-2024

ENGLISH:

- English I (Honors or Adv. Honors)
- English II (Honors or Adv. Honors)
- Honors English III
- Honors English IV
- AP English Language & Composition
- AP English Literature & Composition
- Creative Writing: Literary Magazine
- Holocaust Literature & Film
- Journalism I
- Honors Journalism: Newspaper
- Honors Journalism: Yearbook

MATHEMATICS:

- Algebra I (General or Honors)
- Geometry (General or Honors)
- Algebra II (General or Honors)
- College Algebra
- Honors Probability & Statistics
- Advanced Honors
Pre-Calculus/Trigonometry
- AP Calculus AB
- AP Calculus BC
- Differential Equations I (MAP2302)
- Calculus with Analytic Geometry III (MAC2313)
- AP Statistics

NATURAL SCIENCES:

- Biology (General, Honors or Adv. Honors)
- AP Biology
- Chemistry (General, Honors, or Adv. Honors)
- AP Chemistry
- Honors Physics
- AP Physics C: Mechanics
- AP Physics C: Electricity & Magnetism
- Honors Brain & Behavior
- Honors Marine Biology
- Honors Principles of Biomedical Sciences
- Honors Human Body Systems
- Astronomy

HISTORY & SOCIAL SCIENCES:

- Honors Ancient History & Geography
- Honors Modern World History & Geography
- AP World History: Modern
- Honors United States History
- AP United States History
- Honors Contemporary U.S. Government & Political History
- Honors Economics w/Financial Literacy
- AP Macroeconomics
- AP U.S. Government & Politics
- AP Human Geography
- AP European History
- World War I & II
- Civil War
- Introduction to Entrepreneurship
- Personal Finance
- Risk & Reward
- AP Psychology
- Intro to Psychology
- Theories of Personality
- Abnormal Psychology
- Abnormal Psychology in Film
- African American History
- Contemporary Issues

WORLD LANGUAGES:

- Spanish I
- Spanish II (General or Honors)
- Spanish III (Honors or Adv. Honors)
- Advanced Honors Spanish IV
- Adv. Honors Spanish Conversation
- AP Spanish Language & Culture
- French I
- Honors French II
- Advanced Honors French III
- Advanced Honors French IV
- AP French Language & Culture
- Latin I
- Honors Latin II
- Advanced Honors Latin III
- Advanced Honors Latin IV
- AP Latin
- Classical Greek I

COMPUTER SCIENCE & ENGINEERING:

- Computer Programming & Cyber Security
- AP Computer Science Principles
- AP Computer Science A
- Engineering Design & Analysis
- Engineering Applications of Computer Science

VISUAL & PERFORMING ARTS:

- Foundations of Art
- Art Appreciation
- 2-D Studio Art I
- 2-D Studio Art II
- Ceramics/Pottery I
- Ceramics/Pottery II
- Honors Design Collaboration
- Digital Photography
- Graphic Design
- AP Art & Design (2-D, 3-D, Drawing)
- Popular Music I (formerly Americana I)
- Popular Music II (formerly Americana II)
- Songwriting & Music Production
- AP Music Theory
- Strings I
- Strings II – Concert Orchestra
- Theatre I
- Theatre II
- Musical Theatre
- Concert Band
- String Orchestra
- Vocal Ensemble
- Dance Technique

HEALTH & PHYSICAL EDUCATION:

- Strength Training

ELECTIVES:

- Critical Thinking & Study Skills
- Directed Independent Study (DIS)
- Internship

CONCENTRATIONS:

- STEM: Biomedical
- STEM: Core Sciences
- STEM: Computer Science & Engineering
- Business & Entrepreneurship
- Arts, Inspiration, & Design
- Global Citizenship
- Journalism & Graphic Arts

My FOUR-YEAR ACADEMIC PLAN

	COURSES TAKEN/PLANNED				
SUBJECT	HS CREDITS (PRE-9 TH GRADE)	9 TH	10 TH	11 TH	12 TH
ENGLISH (ALL YEARS AT MACLAY)					
MATHEMATICS (ALL YEARS AT MACLAY) <small>MUST INCLUDE ALGEBRA I, GEOMETRY, & ALGEBRA II</small>					
NATURAL SCIENCES (3 CREDITS MIN.) <small>MUST INCLUDE BIOLOGY, CHEMISTRY & PHYSICS</small>					
HISTORY/ SOCIAL SCIENCES (4 CREDITS MIN.) <small>MUST INCLUDE ECONOMICS</small>					
WORLD LANGUAGE (2 CREDITS MIN.) <small>MUST BE SAME LANGUAGE IN SEQUENTIAL YEARS</small>					
HEALTH <small>½ CREDIT REQUIRED</small>					
PHYSICAL EDUCATION <small>½ CREDIT REQUIRED</small>					
FINE ARTS <small>½ CREDIT REQUIRED</small>					
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 Advanced Honors English I
	10	Honors English II or Advanced Honors English II
	11	Honors English III or AP English Language & Composition
	12*	Honors English IV or AP English Literature & Composition

* Seniors must take at least one English course with emphasis on contemporary literature:

- ☐ AP English Literature & Composition
- ☐ Honors English IV: Southern Literature
- ☐ Honors English IV: Mystery & Detective Literature
- ☐ Honors English IV: Film as Literature
- ☐ Honors English IV: Contemporary Literature
- ☐ Honors English IV: Women in Literature

Academic Electives:

- ☐ Creative Writing: Literary Magazine
- ☐ Holocaust Literature and Film
- ☐ Honors Journalism - Newspaper
- ☐ Honors Journalism - Yearbook

Individual Plan:

Grade	Grade 9	Grade 10	Grade 11	Grade 12
Course				

Grade 9 (Choose One)

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.

Advanced Honors English I

- ❖ **Prerequisites:** Average of at least A- in 8th grade English, faculty recommendation, and high percentile standardized achievement test scores. Students seeking admission to the Advanced Honors course must also pass a skills test.
- ❖ Course includes all the basic reading and writing requirements of Honors English I, as well as a research-based essay, and a more intensive study of vocabulary, exposition, and literary analysis. Practical applications of grammar usage, sentence completion, and passage-based reading comprehension skills as they apply to exposition will be required, in addition to supplemental reading. English I seeks to develop the reading, writing, and thinking skills necessary for the study of English in the Upper School.

Grade 10 (Choose One)

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).

Advanced Honors English II

- ❖ **Prerequisites:** *Minimum B+ average in Advanced Honors English I or A- average in Honors English I. Must also pass a skills test. Faculty recommendation is also a factor.*
- ❖ **Note:** *No student with a B average or less in English I will be accepted. Recommended as a precursor to either AP English course.*
- ❖ This year-long study of literature includes a survey of major writers and genres, including numerous poetic forms, nonfiction, drama, and fiction. The course includes additional readings beyond those required in Honors English II. In addition, essay-writing techniques are integrated throughout the year's studies. This includes systematic grammar review, instruction in the major modes of exposition, several research-based assignments, analysis of rhetorical devices in literature, 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).

Grade 11 (Choose One)

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

- ❖ **Prerequisites:** *A- average in Advanced Honors English II or an A average in Honors English II. Faculty approval needed. Students who took Honors English II or students with averages less than these prerequisites may be considered for admission to the class after taking a placement test. No student with a B average or less in English II will be accepted. All students new to Maclay must take the placement test and submit a writing sample.*
- ❖ **Note:** *All students are required to take the AP exam in May.*
- ❖ In this college-level course, using American Literature as a basis for understanding prose and poetry, students will analyze literature written in a variety of periods and disciplines with an emphasis on rhetorical devices and argumentation techniques. Also included are the basics of documentation as part of the research paper requirement. Students read a wide range of print and nonprint texts to build an understanding of texts, of themselves, and of the cultures of the United States and the world, all in an attempt to build an awareness of the many dimensions – philosophical, ethical, aesthetic – of human experience (NCTE Standards).

Grade 12 (Choose One Year-Long Course or Two One-Semester Courses)

AP English Literature & Composition

- ❖ **Prerequisites:** A- in previous English courses and faculty approval. Students who took Honors English III or students with averages less than these prerequisites may be considered for admission to the class after writing a timed, impromptu essay. No student with a B average or less in English III or AP English Language and Composition will be accepted. All students new to Maclay must write the impromptu essay and submit a writing sample.
- ❖ **Note:** All students are required to take the AP exam in May.
- ❖ This college-level course involves an in-depth study and analysis of major works of world literature, including *Hamlet*, *The Sound and the Fury*, and many others. Students will study major literary movements, such as modernism and postmodernism, and will choose several independent study projects. AP students are expected to be skilled in research techniques and citation of sources, as well as to be able to write fluently and analytically within a designated time period.

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 film and graphic novel. 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: 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: Film as Literature

- ❖ **Offered:** One Semester, offered Both Semesters
- ❖ This course encourages students to think and write critically about film as they would a literary text. Class meetings will consist of film screenings (covering a wide and diverse range of films) and discussions of the viewed films. Following the completion of each film, students will complete a short analytical essay growing out of those in-class discussions. 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: 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.

Honors English IV: Women in Literature

- ❖ **Offered:** *Second semester only*
- ❖ This course features several works by women from diverse cultural and historical backgrounds. We will examine a variety of forms, including short fiction, graphic novel, poetry, and film. Through personal reflection and class discussion, students will analyze the role of women in our collective literary history. Open to juniors and seniors only.

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:** During Flex (See Course Description on Page 60)

Honors Journalism (Newspaper)

- ❖ **Prerequisites:** Acceptance is by application and faculty 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.

Honors Journalism (Yearbook)

- ❖ **Prerequisites:** Acceptance is by application and faculty approval.
- ❖ **Note:** This course can also count towards the Fine Arts credit requirement.
- ❖ 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.

MATHEMATICS

For all math courses and electives: student placement will be based on a combination of previous math grades, PSAT score and faculty recommendations. If a student wishes to take a course higher than recommended, they must first pass a placement test.

All Upper School mathematics courses require a TI graphing calculator.

Required Courses:

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

Academic Core Electives:

- ☐ College Algebra
- ☐ Honors Probability & Statistics
- ☐ Advanced Honors Pre-Calculus/Trigonometry
- ☐ AP Calculus AB
- ☐ AP Calculus BC
- ☐ Differential Equations I ([MAP 2302](#))
- ☐ Calculus with Analytic Geometry III ([MAC 2313](#))
- ☐ AP Statistics

Individual Plan:

Grade	Grade 9	Grade 10	Grade 11	Grade 12
Course				

Algebra I (Choose One)

Algebra I

- ❖ This course will cover the topics of algebra including order of operations; variables; problem solving; properties of real numbers; solving linear equations; graphing linear equations and functions; writing linear equations; solving and graphing linear inequalities, systems of linear equations and inequalities; exponents and exponential functions; quadratic equations and functions; polynomials and factoring; and rational expressions and equations.

Honors Algebra I

- ❖ **Prerequisites:** *Faculty recommendation required. Recommendation will be based on scores earned in previous math classes, PSAT, Pre-ACT, and Algebra I readiness assessment.*
- ❖ This course is a first-year algebra course with emphasis on properties of real numbers, simplifying equations, as well as solving equations, systems of equations, and inequalities. Quadratic equations will be solved by graphing, factoring, and the quadratic formula. Functions and other polynomials will be explored as well as rational expressions and an introduction to irrational numbers and radicals. This course covers all the topics of Algebra I but at a deeper level and moves at a quicker pace.

Geometry (Choose One)

Geometry

- ❖ **Prerequisite:** *Algebra I*
- ❖ Students will develop their powers of deductive reasoning in this course. Topics covered include the study of parallelism and perpendicularity in two and three dimensions; angle measurements; congruencies and similarities of plane and solid figures; algebraic and geometric proof; logic; right triangle geometry and trigonometry; lateral area, surface area and volume of solid figures.

Honors Geometry

- ❖ **Prerequisites:** *Algebra I and faculty recommendation required. Recommendation will be based on scores earned in previous math classes, PSAT, Pre-ACT, and Geometry readiness assessment.*
- ❖ This course is designed to develop the students' powers of deductive reasoning. Subject matter will include the study of parallelism and perpendicularity in two and three dimensions; angle measurements; congruencies and similarities of plane and solid figures; algebraic and geometric proof; logic; right triangle geometry and trigonometry; lateral area, surface area and volume of solid figures; and transformational geometry.

Please Note:

Any students who wish to take Geometry and Algebra II concurrently must have faculty recommendation. *Recommendation will be based on scores earned in previous math classes, PSAT, Pre-ACT, and Algebra II readiness assessment.*

Algebra II (Choose One)

Algebra II

- ❖ **Prerequisites:** Algebra I and Geometry
- ❖ This course includes a review of the properties of integers and real numbers with an emphasis on equation solving. Other topics include inequalities, absolute value, graphing, functions, systems of equations, exponents, polynomials and factoring, rational expressions and equations, radical expressions and equations, and quadratic equations.

Honors Algebra II

- ❖ **Prerequisites:** Algebra I, Geometry, and faculty recommendation. Recommendation will be based on scores earned in previous math classes, PSAT, Pre-ACT, and Algebra II readiness assessment.
- ❖ This course is designed to give the 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.

ACADEMIC CORE ELECTIVES

College Algebra

- **Prerequisites:** Algebra II and faculty recommendation. Recommendation will be based on scores earned in previous math classes, PSAT, Pre-ACT, and post Algebra II readiness assessment.
- This course is designed to prepare the student for work in trigonometry, statistics, or finite mathematics. Topics covered are those that a student would encounter in a post-secondary Algebra course. They include algebraic expressions; equations and inequalities; linear, quadratic, exponential and logarithmic functions; techniques and applications of graphing; zeros of polynomials; sequences and systems of equations and matrices; conic sections; and introduction to probability.

Advanced Honors Pre-Calculus/Trigonometry

- ❖ **Prerequisites:** Algebra II and faculty recommendation. Recommendation will be based on scores earned in previous math classes, PSAT, Pre-ACT, and post Algebra II readiness assessment.
- ❖ **Note:** This course can be taken concurrently with AP Statistics with faculty approval.
- ❖ 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 Calculus AB

- ❖ **Prerequisites:** Advanced Honors Pre-Calculus/Trigonometry and faculty recommendation. Recommendation will be based on scores earned in previous math classes, PSAT, Pre-ACT, SAT, ACT and AP Calculus readiness assessment.
- ❖ **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

- ❖ **Prerequisite:** AP Calculus AB
- ❖ **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 (MAP2302)

- ❖ **Prerequisite:** A score of 4 or better on the AP Calculus BC exam
- ❖ **Note:** This is course offered through Tallahassee Community 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 (MAC2313)

- ❖ **Prerequisite:** A score of 4 or better on the AP Calculus BC exam
- ❖ **Note:** This course is offered through Tallahassee Community 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 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 Probability & Statistics

- ❖ **Prerequisites:** Algebra II
- ❖ **Note:** May be taken concurrently with Advanced Honors Pre-Calculus/Trigonometry
- ❖ 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

- ❖ **Prerequisites:** Algebra II and faculty recommendation. Recommendation will be based on scores earned in previous math classes, SAT, and ACT.
- ❖ **Note:** This course can be taken concurrently with Advanced Honors Pre-Calculus/Trigonometry, 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, physics, and chemistry classes. Students must take the AP diagnostic exam prior to taking their first AP science course. These results are used with grades, standardized test scores, performance in math classes, and teacher recommendations to determine students recommended future placement.

Required Courses:

Completed	Grade	Course
	9	Biology (General, Honors or Advanced Honors)
	9-10	Chemistry (General, Honors, or Advanced Honors)
	10-11	Physics (Honors or AP)

Academic Core Electives:

- ☐ AP Biology
- ☐ AP Chemistry
- ☐ Honors Brain & Behavior
- ☐ Honors Marine Biology
- ☐ Honors Principles of Biomedical Sciences
- ☐ Honors Human Body Systems
- ☐ Astronomy

Individual Plan:

Grade	Grade 9	Grade 10	Grade 11	Grade 12
Course				

Biology (Choose One)

Biology

- ❖ This course is designed to provide students with an overview of biology. Biology includes direct instruction, laboratory investigations, critical thinking activities and individual and group research opportunities with an emphasis on exploration. Topics explored range from cells to ecology.

Honors Biology

- ❖ **Prerequisite:** *B average in 8th grade science*

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.

Advanced Honors Biology

- ❖ **Prerequisites:** *A- average in 8th Grade science, Departmental approval*

This course is designed to prepare students for the Advanced Placement Biology curriculum and uses an advanced college text. Topics covered include cell biology, an in-depth taxonomic survey of the biological kingdoms, animal morphology and physiology, and ecology.

Chemistry (Choose One)

Chemistry

- ❖ **Prerequisites:** *Biology, Algebra I, Departmental approval*
- ❖ The macroscopic and microscopic aspects of the world of chemistry are investigated through laboratory experiences, problem solving exercises, lecture and cooperative learning. This chemistry course is designed for students who need to improve their critical thinking and mathematics skills. Students will be encouraged to move beyond memorization and apply the skills needed for successful scientific investigation and problem solving in general in the context of chemistry. Students will build an understanding of the structure and properties of matter, regularities in chemistry, and energy changes in chemistry as they learn and apply the skills needed to succeed in more advanced levels of the science.

Honors Chemistry

- ❖ **Prerequisites:** *Biology and Geometry*
- ❖ 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.

Advanced Honors Chemistry

- ❖ **Prerequisites:** *Biology, Geometry, departmental approval.*
- ❖ **Corequisite:** *Advanced Honors Algebra II.*
- ❖ This course is a rigorous introduction to chemistry and covers essentially the same topics as Honors Chemistry. The course takes a highly quantitative and analytical approach to many topics, so advanced mathematical and reasoning skills are expected. Students should expect a challenging workload.

Physics (Choose One)

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.

AP Physics C: Mechanics

- ❖ **Prerequisite:** *Advanced Honors Precalculus and Trigonometry.*
- ❖ **Corequisite:** *AP Calculus AB, Honors or Advanced Honors 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, *ProbeWare*, 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 5 units focusing on ideas often associated with electricity and magnetism: Electrostatics, Capacitance, Basic Circuits, Magnetism, and Electromagnetic Waves.

NATURAL SCIENCES

Academic Core Electives

AP Biology

- ❖ **Prerequisites:** Advanced Honors Biology or Honors Biology, Honors or Advanced Honors Chemistry, departmental approval. May be taken concurrently with Advanced Honors Chemistry.
- ❖ **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:** Advanced Honors or Honors Chemistry, Algebra II, departmental approval.
- ❖ **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.

Honors Brain & Behavior

- ❖ **Offered:** First semester only
- ❖ **Prerequisites:** Honors Biology and Honors Chemistry
- ❖ This introductory course is a one semester course designed to provide an overview of the biology of the brain, how the environment affects brain function, and how we study the brain from molecules to behavior.

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:** Letter of recommendation from science teacher. Freshmen/Sophomores only.
- ❖ 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. This course is required for the Biomedical Concentration.

Honors Human Body Systems

- ❖ **Prerequisite:** *Honors Principles of Biomedical Sciences*
- ❖ 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. This course is required for the Biomedical Concentration.

Introduction to Astronomy

- ❖ **Offered:** *First Semester Only*
- ❖ Astronomy is the branch of science which deals with celestial objects, space and the physical universe. This course is designed to give students a brief introduction to the major topics found in astronomy and cosmology. These topics include but are not limited to: the lifespan of stars, our solar system, planetary motion, history of astronomy, waves, optics, astronomical phenomenon, and cosmology.

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 Ancient History & 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 U.S. Government & Politics
- ☐ AP Macroeconomics
- ☐ AP Human Geography
- ☐ AP European History
- ☐ World War I & II
- ☐ Civil War

SOCIAL SCIENCE ACADEMIC ELECTIVES:

- ☐ Introduction to Entrepreneurship
- ☐ Personal Finance
- ☐ Risk and Reward
- ☐ AP Psychology
- ☐ Intro to Psychology
- ☐ Abnormal Psychology
- ☐ Abnormal Psychology in Film
- ☐ Theories of Personality
- ☐ African American History
- ☐ Contemporary Issues

Individual Plan:

Grade	Grade 9	Grade 10	Grade 11	Grade 12
Course				

Grade 9 (Choose One)

Honors Ancient History & Geography

- ❖ The first semester of this year-long course will begin with an in-depth review of physical geography of the areas to be studied, and a review of map skills, which will be studied all year. Course work will develop an understanding of the ancient world's societies through a study of Ancient Mesopotamia, Egypt, the Ancient Middle East, Greece, and Rome. The second semester will examine Asian, African, and Indian cultures. Major emphasis will be on charting the development and the destruction of feudalism, the Crusades, the Renaissance, and Reformation. This course will focus on enhancing skills such as note-taking and critical and analytical writing with the use of supplemented historical documents.

AP Human Geography (9th Grade Section)

- ❖ **Prerequisites:** Minimum of an A- in 8th Grade History, as well as strong scores on standardized testing in reading comprehension, vocabulary, language, expression, listening and thinking skills. Faculty approval is necessary for admission.
- ❖ **Note:** All students are required to take the AP exam in May.
- ❖ 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.

Grade 10 (Choose One)

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 focus on developing students' writing, note-taking, critical thinking, and presentation skills. Students will also spend considerable time analyzing world geography.

AP World History: Modern

- ❖ **Prerequisite:** Faculty 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 (Choose One)

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 focus on developing students' writing, improving notetaking and study skills, expanding critical thinking, and supplementation with historical documents.

AP United States History

- ❖ **Prerequisite:** Faculty approval
- ❖ **Note:** 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.
- ❖ This course is an in-depth analysis of American history from the Colonial period to the present. Social, political, diplomatic, and intellectual developments are explored. Much outside reading is expected to fulfill the AP requirements.
- ❖ This course is open only to juniors and replaces 12th grade Honors Contemporary U.S. Government and Political History. 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.

Grade 12

Government (Required* – Choose One)

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 reviews the development and role of government institutions starting in the 1930s. It further investigates their interaction with American politics during the twentieth century, paying special attention to the New Deal, World War II, McCarthyism and the Cold War, and the Watergate scandal.

AP United States Government & Politics

- ❖ **Offered:** First Semester only
- ❖ **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 – Choose One)

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 student 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 makes this course particularly relevant to everyday life and deepens the understanding of the causes and effects of economic changes.

AP Macroeconomics

- ❖ **Grade Level:** *12th Grade*
- ❖ **Offered:** *Second semester only*
- ❖ **Note:** *All students are required to take the AP exam in May. Juniors may take this course with faculty approval.*
- ❖ 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 only Seniors, Juniors and Sophomores. All students are required to take the AP exam in May. Class size is limited.
- ❖ 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.

World War I & II

- ❖ **Offered:** First semester only
- ❖ **Note:** This course is open to Seniors and Juniors. Sophomores must obtain faculty 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 must obtain faculty 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

Introduction to Entrepreneurship

- ❖ **Offered:** *One Semester, Offered Both Semesters*
- ❖ **Note:** *This course is open to Seniors and Juniors. Sophomores must obtain faculty approval.*
- ❖ Do you like Shark Tank? Have you considered owning your own business? Are you creative and enjoy marketing? If so join us for Introduction to Entrepreneurship. This course teaches the basics of planning and launching a business. Whether you're interested in creating a money-making business or a nonprofit to help others, this course provides the core skills needed to succeed. In the first half of the course students will learn from entrepreneurs in our community, understand the characteristics of successful entrepreneurs, and the pros and cons of self-employment. Students will identify a business idea of their choosing, create a business plan, and a vision statement. The second half of the course advances the skills and key business concepts students need to know to plan and launch a business. Students implement their vision, mission statement, goals and strategies. Twice during the semester, the students will pitch their idea to a panel of judges. Topics include exploring factors of business success and failure, economic systems, competition, and production. Financially they'll understand how to finance a business, establish costs and pricing, and the role of the government in business, regulations, and laws.

Personal Finance

- ❖ **Offered:** *One Semester, Offered Both Semesters*
- ❖ **Note:** *This course is open to Seniors and Juniors. Sophomores must obtain faculty 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

- ❖ **Offered:** *One Semester, Offered Both Semesters*
- ❖ **Note:** *This course is open to Seniors only. Juniors must obtain faculty approval.*
- ❖ **Prerequisites:** *Intro to Entrepreneurship or Personal Finance*
- ❖ 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.

AP Psychology

- ❖ **Prerequisites:** Honors Biology and Honors Chemistry.
- ❖ **Note:** All students are required to take the AP Exam in May
- ❖ This year long course provides students with a college-level background in the study of human behavior and mental processes. Students will learn about important psychologists and their impact on the field, the biological basis of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, psychological disorders, and social psychology. Students will use research methods, including the scientific method, to evaluate claims and evidence as well as communicate ideas.

Intro to Psychology

- ❖ **Offered:** One Semester, Offered Both Semesters
- ❖ An introduction to psychological terms, facts and principles designed to aid students in understanding individual human behavior. Behavior is analyzed and interpreted through activities and discussions of topics such as motivation, emotion, perception, learning, and intelligence.

Theories of Personality

- ❖ **Offered:** One Semester, Offered Both Semesters
- ❖ Students will gain an understanding of the role of personality theory in psychology and comprehend the way it is assessed. This course will be the study of major theories/theorists and their own perspectives on personality. Topics include trait, psychodynamic, behavioral, and humanistic theories. Methods of personality research will be implicated via group and individual projects.

Abnormal Psychology

- ❖ **Offered:** First Semester Only
- ❖ **Prerequisite:** Intro to Psychology
- ❖ **Note:** This course is open to Seniors, Juniors and Sophomores only.
- ❖ This course is a comprehensive study of abnormal experience and behavior, with a particular emphasis on the psychopathology of mental disorders. Neuroses, psychoses, and mental retardation will be the focal points of this course. Various schemas from which abnormality can be viewed (i.e., statistical deviation, social norm violation, maladaptive behavior patterns) will be used as the conceptual framework for studying abnormal behavior. A combination of lecture, reading material, videos, group and individual research projects will be used to assist the learning process.

Abnormal Psychology in Film

- ❖ **Prerequisites:** *Biology and Chemistry. Parental permission.*
- ❖ **Offered:** *Second Semester Only*
- ❖ The Abnormal Psychology in Film course is designed to introduce students to the realm of abnormal psychology through the lens of fictional media over the course of a semester. Students will explore various mental illnesses in terms of symptoms, DSM-5 diagnostic criteria, causes, and treatments. From there, students will observe various films (2-3 per illness) and observe/diagnose characters based on current diagnostic criteria, commenting on inaccuracies which may be present. Examples of Neurological disorders to be studied will include but are not limited to: Schizophrenia, Antisocial Personality Disorder, Dissociative Identity Disorder, Neurodegenerative Disorders, Borderline Personality Disorder, Factitious Disorder and Substance Abuse Disorder. Due to the sensitive nature of the subject material (which will include movies with R-ratings), this is a senior only class, and will require parental approval before enrollment.

African American History

- ❖ **Offered:** *One Semester, Offered Both Semesters*
- ❖ **Note:** *This course is open to only Seniors and Juniors.*
- ❖ This course is designed to give students an understanding of American history through the African American perspective. Students will learn the historical nature of race relations in the United States and how that history influences contemporary society. There will be 3 components to this course: social history, culture, and legal issues. Each of these components will be discussed at great lengths in order to give the student a clearer understanding of American history.

Contemporary Issues

- ❖ **Offered:** *Second Semester Only*
- ❖ This course will examine the historical precedents of current events confronting the nation and the world. Topics addressed will be of immediate interest to students and will give them opportunities to examine evidence, explore differing viewpoints, identify ideological bias, evaluate information, and exercise critical thinking skills.

WORLD LANGUAGES

The World Languages Department feels that all students should be exposed to all facets of the languages and culture. This includes history, language acquisition, and culture. In view of the globalism of our current society, the 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
	Spanish I
	Spanish II (General or Honors)

ADDITIONAL SPANISH COURSES:

- ☐ Honors Spanish III
- ☐ Advanced Honors Spanish III
- ☐ Advanced Honors Spanish IV
- ☐ Advanced Honors Spanish Conversation
- ☐ AP Spanish Language & Culture

FRENCH

Completed	Required Courses
	French I
	Honors French II

ADDITIONAL FRENCH COURSES:

- ☐ Advanced Honors French III
- ☐ Advanced Honors French IV
- ☐ AP French Language & Culture

LATIN

Completed	Required Courses
	Latin I
	Honors Latin II

ADDITIONAL LATIN COURSES:

- ☐ Advanced Honors Latin III
- ☐ Advanced Honors Latin IV
- ☐ AP Latin

Individual Plan:

Grade	Grade 9	Grade 10	Grade 11	Grade 12
Course				

REQUIRED SPANISH COURSES

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.



Spanish II

- ❖ **Prerequisites:** *Spanish I or faculty approval*
- ❖ During the first semester, an extensive review of concepts covered in Spanish I will be conducted along with introduction of new concepts. Culture will be included throughout the year. Students will have additional practice and move at a different pace than the Honors class. At the conclusion of this class students will be prepared for Honors Spanish III but may move up to Advanced Honors Spanish III with faculty approval.

Honors Spanish II

- ❖ **Prerequisites:** *B+ average or higher in Spanish I and faculty approval*
- ❖ This course is designed to follow Spanish I for more motivated students. Students will be challenged from day one and a brief review of concepts presented in Spanish I will be included along with the presentation of new material. Additional cultural topics and readings will also be included. The class will be conducted in Spanish as much as possible. This level will provide the grammatical basis needed for more advanced studies and lead to Advanced Honors Spanish III.

SPANISH ACADEMIC ELECTIVES

Honors Spanish III

- ❖ **Prerequisites:** *Spanish II and faculty approval*
- ❖ **Note:** *This class will not prepare students to continue in Advanced Honors Spanish IV.*
- ❖ This course is designed to follow Spanish II. Students review vocabulary and basic grammar and continue to add more complex usage. 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. This class will not prepare students to continue in Advanced Honors Spanish IV. Students in this class will be required to complete approximately one hour of oral work outside of class in a Language Lab prescribed by the teacher. This will be in addition to regular class homework

Advanced Honors Spanish III

- ❖ **Prerequisites:** A- average in Honors Spanish II and faculty 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 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, Advanced Honors 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 Advanced Honors 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.

Advanced Honors Spanish IV

- ❖ **Prerequisites:** Advanced Honors Spanish III or faculty recommendation
- ❖ **Note:** This course is taught in Spanish and will lead to AP Spanish Language & Culture.
- ❖ This course is designed to teach the history, culture, and literature of Spain. Other Spanish-speaking countries are studied using literary excerpts and web-based activities highlighting current issues. Oral, reading, and written skills are emphasized. More advanced grammar is presented and is used in all skills mentioned above.

Advanced Honors Spanish Conversation

- ❖ **Prerequisite:** Advanced Honors Spanish IV or departmental approval.
- ❖ This is a class for students who want to continue above Spanish IV and improve their oral skills. It will focus on real life situations, current events, and practical language usage. It will strengthen basic language skills through a thematic study of vocabulary as well as grammar review.

AP Spanish Language & Culture

- ❖ **Prerequisites:** Advanced Honors Spanish IV
- ❖ **Note:** All students are required to take the AP exam in May.
- ❖ This class employs the study of both original, unabridged literary works and contemporary journalistic writing to teach the Spanish language. Several authors of Spain and Latin America are studied through the genres of novel, short story, poetry, and drama. Students read and write in Spanish at a college-level with particular emphasis on literary criticism. Contemporary journalistic writing includes a systematic review of the grammar taught in Spanish III and IV, which is introduced and reinforced through literature. Oral practice comes through daily discussion as well as specific weekly activities. Culture is taught in tandem with the literature being studied.

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 faculty approval*
- ❖ **Note:** *This course is taught primarily in French with English used to clarify grammar explanations when necessary.*
- ❖ Students use skills acquired in French I and add vocabulary, more complex grammatical structures, and verb tenses not introduced in French I. Most of the French I material is reviewed at the beginning of the course. An emphasis is placed on aspects of popular culture such as media, entertainment, and music. This level prepares the student to pass on to a more advanced and in-depth study of the French language.

FRENCH ACADEMIC ELECTIVES

Advanced Honors French III

- ❖ **Prerequisites:** Honors French II or faculty approval
- ❖ **Note:** The course is designed to prepare the students for Advanced Honors French IV and AP French courses and is taught primarily in French.
- ❖ This course provides an in-depth study of grammar in authentic cultural contexts. Culture and literature are studied with a view to improving reading, oral, and listening comprehension. Traditional and contemporary French literature is introduced in addition to that available in newspapers and magazines.

Advanced Honors French IV

- ❖ **Prerequisites:** Advanced Honors French III or faculty approval
- ❖ **Note:** The course is taught 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 films and literary works. Oral, reading, and written 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:** Advanced Honors French IV or faculty approval
- ❖ **Note:** All students must take the AP exam in May.
- ❖ The primary goal of this course is to help students develop a college-level 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. 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 faculty 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

Advanced Honors Latin III

- ❖ **Prerequisites:** *Honors Latin II and faculty 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 Advanced Honors Latin III well prepared for Advanced Honors Latin IV or AP level work the following year.

Advanced Honors Latin IV

- ❖ **Prerequisites:** *Advanced Honors Latin III and faculty 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 Advanced Honors Latin IV well prepared for AP level work the following year.

AP Latin

- ❖ **Prerequisites:** *Advanced Honors Latin IV, Advanced Honors Latin III or Honors Latin II with faculty approval and a higher-level AP English class or currently enrolled in one*
- ❖ **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.

ACADEMIC ELECTIVE

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 & ENGINEERING

- ☐ Computer Programming & Cyber Security
- ☐ AP Computer Science Principles: Mobile
- ☐ AP Computer Science A
- ☐ Engineering Design and Analysis
- ☐ Engineering Applications of Computer Science

COMPUTER SCIENCE

Computer Programming & Cyber Security

- ❖ Learn the basics of computer programming via the Python programming language. This class will cover basic topics related to programming including an introduction to “Object Oriented Programming”. The class is designed for students with little or no programming experience that want to work with one of the most popular programming languages in the world. Additionally, students will be introduced to the main tenants of cyber security as they continue exploring and expanding programming knowledge.

AP Computer Science Principles: Mobile

- ❖ **Prerequisites:** Algebra II and faculty 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 faculty 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.

Individual Plan:

Grade	Grade 9	Grade 10	Grade 11	Grade 12
Course				

Engineering Design & Analysis

- ❖ **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.
- ❖ 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 Applications of Computer Science

- ❖ **Prerequisite:** Engineering Design & Analysis
- ❖ **Note:** At this time, we cannot guarantee that a dual-enrollment opportunity will exist for this course, but it is a possibility. If it is provided, it will be provided by the University of Texas Systems Institutions and application and acceptance will be solely determined by them. 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 continues the foundation created by the Engineering Design course. Students participate in a combination of project-based, socially relevant design challenges and explorations that introduce students to key computing principles in the context of engineering. Students employ engineering processes, skills, and habits of mind to solve more complex challenges that rely on the computing, programming, data representation and analysis, algorithmic thinking, and modeling skills that are so important in engineering.

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 that are 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

- ☐ Foundations of Art
- ☐ Art Appreciation

ACADEMIC VISUAL ARTS COURSES

- ☐ 2-D Studio Art I
- ☐ 2-D Studio Art II
- ☐ Ceramics/Pottery I
- ☐ Ceramics/Pottery II
- ☐ Digital Photography
- ☐ Graphic Design
- ☐ Honors Design Collaboration: Designing Solutions for Art, Work, and Life
- ☐ AP Art & Design: 2-D Art, 3-D Art, or Drawing

ACADEMIC PERFORMING ARTS COURSES

- ☐ Popular Music I
- ☐ Popular Music II
- ☐ Songwriting and Music Production
- ☐ AP Music Theory
- ☐ Theatre I
- ☐ Theatre II
- ☐ Musical Theatre

NON-ACADEMIC PERFORMING ARTS COURSES

- ☐ Concert Band
- ☐ Strings I
- ☐ Strings II – Concert Orchestra
- ☐ Vocal Ensemble
- ☐ Dance Technique

NON-ACADEMIC COURSES

Foundations of Art

- ❖ **Offered:** *One Semester, Offered Both semesters*
- ❖ This introductory studio art class presents a variety of art techniques designed to increase a visual awareness of the elements and principles of design. This course is designed to be an introduction to more advanced art courses in the McKenzie Center placing a strong focus on Drawing and Painting.

Art Appreciation

- ❖ **Offered:** *One Semester, Offered Both semesters*
- ❖ This introductory studio art class presents a variety of art techniques designed to increase a visual awareness of the elements and principles of design. This course is refined to be an introduction to the more advanced art courses in the BFRC, placing a strong focus on Photography, Graphic Design, and Ceramics.

ACADEMIC COURSES

2-D Studio Art I

- ❖ **Offered:** *One Semester, Offered Both semesters*
- ❖ **Prerequisite:** *Foundations of Art, Art Appreciation, or faculty approval*
- ❖ **Note:** All students are welcome to take this class; however, the course is designed to prepare students to be successful in the AP: Art & Design course. Students will be exposed to some of the research and development required by AP: Art & Design. Students should expect to research and develop their own ideas for art projects.
- ❖ Students develop and refine technical skills and create two-dimensional compositions with a variety of media in drawing, painting, printmaking, collage, and/or design. Student artist's sketch, manipulate, and refine the structural elements of art to improve mark-making and/or the organizational principles of design in a composition from observation, research, and/or imagination. Through the critique process, students evaluate and respond to their own work and the work of their peers. This course incorporates hands-on activities and consumption of art materials.

2-D Studio Art II

- ❖ **Prerequisites:** *2-D Studio Art I or faculty approval*
- ❖ **Note:** This class is designed for highly self-motivated and artistically gifted upper classman that are seeking to develop a portfolio for application to university art programs. All students are welcome to seek faculty approval and are encouraged to speak to US art faculty for an in-depth preview of the course. All students are welcome to take the course regardless of their choice of major.
- ❖ In this year-long course, students demonstrate proficiency in the conceptual development of content in drawing, painting, printmaking, collage, and/or design to create self-directed or collaborative two-dimensional artwork suitable for inclusion in a portfolio. Students produce works that show evidence of developing artisanship and quality in the composition. Through the critique process, students will evaluate and respond to their own work and to that of their peers. Through a focused investigation of traditional techniques, historical and cultural models, and individual expressive goals, students begin to develop a personal art style. This course incorporates hands-on activities and consumption of art materials.

Ceramics/Pottery I

- ❖ **Offered:** *One Semester, Offered Both semesters*
- ❖ **Prerequisite:** *Foundations of Art, Art Appreciation, or faculty 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, or faculty 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

- ❖ **Offered:** *First semester*
- ❖ **Prerequisite:** *Foundations of Art, Art Appreciation, or faculty 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.

Graphic Design

- ❖ **Offered:** *First semester*
- ❖ **Prerequisite:** *Foundations of Art, Art Appreciation, or faculty approval*
- ❖ Students will examine the digital tools used in the visual arts. The students are also exposed to the theory and function of the major software packages and basic digital design principles used in the visual arts. A continuing examination of elements of design, spatial relation/relationships, typography, and imagery as they apply to practical visual solutions for print and web-based applications. Students are introduced to operating procedures in the art department, design studio, and printing techniques. Topics include operating systems, page layout, PDF creation and editing, elements of design, spatial relationships, typography, and imagery as they apply to practical visual solutions for self-promotion, resumes, logo design, and Web design. This course instructs the student in graphic design skills employing traditional and digital tools, materials and procedures employed in the communication arts industry. The focus will be on finding creative visual solutions to communication problems using technical skills.

Honors Design Collaboration: Designing Solutions for Art, Work and Life

- ❖ **Prerequisite:** Faculty approval
- ❖ Students in this inquiry-based course use artistic processes to explore and imagine new connections and/or postulate solutions to real-world problems. Using a combined seminar, studio, and business management approach, this faculty-facilitated, yet highly independent setting requires that students use their individual strengths and interests in the arts. They will also need to consider current and emerging technology, to examine local, cultural, historical, technical, and/or global interests relative to life and work in a creative, global economy. Significant independent research and analysis are required.

AP Art & Design

- ❖ **Prerequisites:** Portfolio submission and faculty approval
- ❖ **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. 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.

PERFORMING ARTS

ACADEMIC COURSES

Popular Music I

- ❖ **Offered:** *One Semester, Offered Both semesters*
- ❖ Students with any or no musical background are welcome to take this course in which they engage popular music by 1) forming a band with their classmates to play songs that they themselves select, 2) completing computer-based music projects in Ableton Live, and 3) learning basic elements of popular music history (from America's origins through the 1960s) by watching and discussing various documentaries. There are two to four live performance opportunities each semester, and students have the choice of playing guitar, piano, keyboard/synthesizer, vocals, bass guitar, electric guitar, auxiliary percussion, and drum set (electronic).

Popular Music II

- ❖ **Offered:** *One Semester, Offered Both semesters*
- ❖ This course is a continuation and expansion of its prerequisite, Popular Music I. Students will continue to learn and perform popular music from various genres as a class band, but with a focus on more advanced music. Students are also given greater freedom to explore various genres and creative aspects of music through personalized Ableton Live computer projects. And with the historical component covering music from the 1970s to present day, students will be immersed in a more self-directed, specific study of select modern popular music genres by watching and discussing music documentaries according to their own unique music interests.

Songwriting & Music Production

- ❖ **Offered:** *One Semester, Offered Both semesters, May be repeated*
- ❖ **Prerequisite:** *Popular Music II or faculty approval*
- ❖ In this class, students will develop their unique musical expression by studying and practicing the craft of songwriting in conjunction with music production. With complete freedom to pursue individual stylistic interests, each student will receive guidance in creating their own music, culminating in one or more complete, self-produced audio tracks using Ableton Live Intro. Whether pop, rock, folk, country, electronic, dance, or beyond, this course will help students develop their raw inspiration into self-produced recordings.

AP Music Theory

- ❖ **Prerequisites:** *Basic ability to read music and faculty approval*
- ❖ **Note:** *It is highly recommended that only students with at least a couple years of experience performing classical music enroll. Students are required to take the AP exam in May.*
- ❖ This course is equivalent to Freshman-year music theory taught at the college level. In this class students will learn the core structural and functional components of Western classical music (Bach, Mozart, Beethoven, et al). Course components include developing musicianship skills, music score analysis, sight singing, and dictation.
- ❖ Any questions regarding the course or a student's readiness for the curriculum should be directed to Dr. Aaron Spotts at aspotts@maclay.org

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. Student 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 II

- ❖ **Offered:** *Full Year*
- ❖ **Prerequisite:** *Theatre I or faculty approval.*
- ❖ This course is designed for the student interested in dramatic activities with an emphasis on performance. They will study the work of the actor and use their gained knowledge to develop as performers. Students will prepare and present as individuals as well as members of small groups and larger ensembles. Since this is a workshop course, students will prepare material for class presentation and critique. There will also be a focus on the audition process as well as theatre history and repertoire. Finally, the class will participate in a culminating showcase performance and theatrical festivals. The student develops concepts about self, human relationships, and the environment, using elements of drama and conventions of theatre. Examples: Improvisation, preparation/warm-ups, movement, voice, text analysis, theatre conventions and interdependence. Creative expression/performance. The student interprets characters, using the voice and body expressively, and creates dramatizations. The students apply design, directing, and the theatre production concepts and skills. The student relates theatre to history, society, and culture. The student responds to and evaluates theatre and theatrical performances.

Musical Theatre

- ❖ **Offered:** *Full Year*
- ❖ Musical Theatre class is an exploration of American Musical Theatre. Students will study the work of the actor/singer/dancer and use their gained knowledge to develop as performers. Students will prepare and present as soloists as well as members of small groups and larger ensembles. Since this is a workshop course, students will prepare material for class presentation and critique. There will also be a focus on the audition process as well as musical theatre history and repertoire. Finally, the class will participate in a culminating showcase performance and musical festival. Course objectives, to strengthen vocal ability, music reading skills, dance techniques and acting/to enlarge the performer's musical theatre repertoire/to reinforce the connection between text, musical analysis, and performance/to develop techniques for auditioning and performing/to provide the performer with techniques to aid in their own learning/to assess strengths and weaknesses in performance and propose solutions for improvement/to further the performer's understanding of musical theatre history and tradition/to provide a foundation for further study and development.

PERFORMING ARTS

NON-ACADEMIC COURSES

Concert Band

- ❖ **Offered:** *One Semester, Offered Both semesters, May be repeated*
- ❖ **Note:** *This course satisfies the fine arts credit requirement if taken for two semesters.*
- ❖ This course is open to all students who play a band instrument. Beginners may join with the approval of the director. The concert band is a performing group that represents Maclay at concerts, band festivals, and various other events. Students have opportunities to participate in smaller ensembles within the band such as pep band and jazz ensemble. Students also have the opportunity to act as student directors and tutors. Deserving band students are recognized for their achievements with awards given at the district, state, and national level.

Strings I

- ❖ **Offered:** *One Semester, Offered Both semesters, May be repeated*
- ❖ **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:** *One Semester, Offered Both semesters, May be repeated*
- ❖ **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 Maclay Concert 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.

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.

Dance Technique

- ❖ **Offered:** *Both semesters, may be repeated*
- ❖ **Note:** *This will fulfill a Physical Education and Fine Arts Credit.*
- ❖ The students will demonstrate the ability to use perceptual skills through performing and responding in dance. This course focuses on the study, preparation, and performance of dance works with emphasis on technique, style, stage presence and professionalism as required for work in a dance ensemble. This course will prepare dancers with the physical and intellectual understanding to increase performance demands and longevity in professional careers. Through physical exercises, lectures and reading assignments, this course emphasizes training methods with special attention given to the concerns of the dancer: core stability, flexibility, kinesthetic self-awareness, proper alignment, coordination, nutrition, and basic anatomical understanding.

HEALTH & PHYSICAL EDUCATION

*REQUIRED COURSES**

Completed	Course
	Health (1/2 Credit)
	Physical Education: Strength Training (1/2 Credit)

*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 varsity sport, this will also fulfill the health and physical education requirement.

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

PHYSICAL EDUCATION

AVAILABLE COURSES

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

AVAILABLE ELECTIVES

- ☐ Critical Thinking and Study Skills
- ☐ Directed Individual Studies (DIS) – Video Production
- ☐ Directed Individual Studies (DIS) – Communications and Marketing
- ☐ Directed Individual Studies (DIS)
- ☐ Internship
- ☐ Study Hall

ELECTIVES

Critical Thinking and Study Skills

- ❖ **Offered:** *One Semester, Offered Both semesters, May be repeated*
- ❖ Achievement in the rigorous Upper School requires self-awareness of one's individual learning strengths, weaknesses and learning styles. This course is designed to provide students with the necessary tools to study more effectively and efficiently. During this course, students will gain insight into their personal learning style and learn a variety of skills that cater to their needs. Specific focus will be given to strategies that improve reading comprehension and knowledge of MLA format and the writing process. Students will also learn effective note-taking skills, organizational techniques, and test-taking strategies. Students will be taught to identify and utilize those skills most beneficial to their individual learning style. Through practice and application of the skills acquired in this course, students will experience success and sustained independence throughout their Upper School journey.

DIS - Video Production

- ❖ **Offered:** *One Semester, Offered Both semesters, May be repeated*
- ❖ **Prerequisites:** *Students must apply and be approved by the instructor and College Counseling offices*
- ❖ Direct Independent Study to create, edit, and produce original videos. At times, this may include short promotional videos for programs and events at Maclay School such as homecoming, athletic events, etc. Students should have strong organizational and writing skills and familiarity with shooting basic video. Adobe Premiere Pro will be the editing platform used in the class, so experience with that or similar programs is a plus. Student will work out of the iTHINK Production Studio in the library and be able to work independently to be able to meet deadlines. Students will assist with the production of the Upper School news show, including daily announcements and special features. Students will work in close collaboration with newspaper and yearbook journalism students. Effective and fast communication skills will be necessary. Students will also assist with livestream broadcasts of school events.

DIS - Communications & Marketing

- ❖ **Offered:** One Semester, Offered Both semesters, May be repeated
- ❖ **Prerequisites:** Students must apply and be approved by the Director of Communications and Academic Advisor
- ❖ **Note:** Selected students will be required to sign an agreement of conduct and confidentiality of access to outlets that represent or disburse information about Maclay School. Students must request an interview through the College Counseling Office. Due to limited space, students must apply and be approved by the Communications or Marketing Director.
- ❖ Students will have the opportunity to experience hands-on marketing and communications under the direct supervision of the Director of Communications in the Office of Advancement. Weekly or bi-monthly assignments may include, but not be limited to, writing assignments published on the website, Virtu, social media, or media outlets, as well as press releases, and creation of web-based marketing content. Students applying should be creative, independent self-starters who enjoy brainstorming and implementing ideas. Strong writing skills are necessary.

Directed Individual Studies

- ❖ **Note:** Approval by Academic Advisor and Dean of Student Affairs must be obtained BEFORE the last day of classes the previous academic semester. For more information, the student should consult the Maclay Upper School Handbook for Students and Parents.
- ❖ Under special situations, a student may take a DIS with a faculty member. Credit can be academic or non-academic, depending on the area of study.

Internship

- ❖ **Grade Level:** Seniors and select Juniors
- ❖ **Offered:** Both semesters
- ❖ **Note:** Students interested in pursuing an internship must meet with their academic advisor and get approval from the Dean of Students.
- ❖ An internship is a non-credit, career-focused experience in research, business, industry, education, government, medicine, or social service that allows the student the opportunity to explore and clarify career choices in a particular field of interest while working with a mentor at a worksite for a defined period of time. A complete Internship includes a minimum of 60 hours, career-related experience plus a reflection paper and oral presentation.

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.

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)
<ul style="list-style-type: none">❖ Geometry (Honors or Advanced Honors)❖ Algebra II (Honors or Advanced Honors)❖ Advanced Honors Pre-Calculus/Trigonometry❖ AP Calculus AB	<ul style="list-style-type: none">❖ Biology (Honors or Advanced Honors)❖ Chemistry (Honors or Advanced Honors)

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 desire to pursue a career in a STEM related field with a focus on scientific research, we have developed the core science track that puts them in a position to enter college with advanced preparation for all of the major fields of science.

Additional Required Courses for this track: (4 credits)

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

*A capstone project will be required to fulfill the Core Sciences concentration beginning with the Class of 2026.

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, AP Physics I or AP Physics C: Mechanics
- ❖ Three of the following courses
 - Computer Programming and Cyber Security
 - AP Computer Science A
 - AP Computer Science Principles
 - Engineering Design and Analysis
 - Engineering Applications of Computer Science

CONCENTRATIONS

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.

CORE REQUIREMENTS

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

Mathematics (4 Credits)	History (3 Credits)
<ul style="list-style-type: none">❖ Geometry (Honors or Advanced Honors)❖ Algebra II (Honors or Advanced Honors)❖ Advanced Honors Pre-Calculus/Trigonometry❖ AP Calculus AB	<ul style="list-style-type: none">❖ 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)	
<ul style="list-style-type: none">❖ Spanish, Latin, or French	

Additional Course Requirements

- ❖ Introduction to Entrepreneurship
- ❖ Personal Finance
- ❖ Risk and Reward

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.

CORE REQUIREMENTS (2 CREDITS)

- ❖ Foundations of Art or Art Appreciation
- ❖ AP Art & Design: 2-D Art, 3-D Art, or Drawing

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
- Honors Design Collaboration: Designing Solutions for Art, Work, and Life

❖ **3-D Studio Art Courses:**

- Ceramics/Pottery I
- Ceramics/Pottery II
- Honors Design Collaboration: Designing Solutions for Art, Work, and Life

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 2023, 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

- ❖ **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
- Community Service Hours – Global in their impact, essay may be required
- Capstone Project

CONCENTRATIONS

JOURNALISM & GRAPHIC ARTS

CORE REQUIREMENTS

- ❖ Required Courses with 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**)

BOARD OF REVIEW MEMBERS

- ❖ Upper School Director
- ❖ Dean of Academics
- ❖ Department Chairs for English & Language Arts and Visual Arts
- ❖ Journalism, Video, and Graphic Art Teachers

GOALS FOR CONCENTRATION

- ❖ Certification in Adobe InDesign and Adobe Photoshop
- ❖ Apprenticeships, Internships, and Partnerships

Journalism I

- ❖ **Offered:** During Flex
- ❖ Throughout modern history, people have depended on the media to spread the word about events and people of interest to the general public. Journalism 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. This course can serve as the prerequisite to Newspaper Production or Yearbook Production and is required for the Journalism Core Concentration.
- ❖ Students will meet once a week for 80 minutes on the first FLEX of each week [see schedule at the end of the policy sheet]. Because we are only meeting once a week, it is very important that you make this class a priority. Please make every effort to attend class. **More than three absences could void your credit.** If you cannot attend class, it will be up to you to make up the work missed that day. At the completion of the course, an elective credit will also be earned.