

MACLAY

UPPER SCHOOL CURRICULUM GUIDE 2024-25



MACLAY SCHOOL

Be Inspired. Be Determined. Be Unstoppable.

MACLAY UPPER SCHOOL LEADERSHIP

James Milford, Head of School
Charles E. Beamer, Jr., Assistant Head of School

Mr. Charles E. Beamer, Jr., Upper School Director cbeamer@maclay.org
Mrs. Heather Bas, Dean of Students hbas@maclay.org
Mrs. Angela Croston, Dean of Academics, Director of Freshman Academy acroston@maclay.org
Mr. Daron Gallina, Director of College Counseling dgallina@maclay.org
Mrs. Lauren Furman, Assistant Director of College Counseling..... laurenfurman@maclay.org
Ms. Tammy Eubanks, School Counselor.....teubanks@maclay.org
Mrs. Janine Couch, Director of Center for Academic Excellence jcouch@maclay.org
Ms. Megan Snow, Director of Health Services, School Nurse megansnow@maclay.org
Mrs. Shana McComb, AP Coordinator smccomb@maclay.org
Ms. Nella Dickens, Administrative Assistant ndickens@maclay.org

Upper School Office (9-12) (850) 893-6545
Admissions (850) 893-7857
Athletic Department..... (850) 668-2373
Clinic (850) 893-5030
College Counseling (850) 894-0841
School Counseling (9-12)..... (850) 668-5104
Information Technology (850) 894-0911
Library (850) 894-0816
Safety & Security/Welcome Center.....(850) 668-5108

UPPER SCHOOL COURSE LIST 2024-2025

<p><u>ENGLISH:</u></p> <ul style="list-style-type: none"> English I (Honors or Adv. Honors) English II (Honors or Adv. Honors) Honors English III Honors English IV: Contemporary Literature Honors English IV: Southern Literature Honors English IV: Film as Literature Honors English IV: Mystery & Detective Literature Honors English IV: Women in Literature AP English Language & Composition AP English Literature & Composition Creative Writing: Literary Magazine Holocaust Literature & Film Journalism I Honors Journalism: Newspaper Honors Journalism: Yearbook <p><u>MATHEMATICS:</u></p> <ul style="list-style-type: none"> Algebra I (General or Honors) Geometry (General or Honors) Algebra II (General, Honors, or Adv. Honors) Math for College Readiness Honors Probability & Statistics Advanced Honors Pre-Calculus/Trigonometry AP PreCalculus AP Calculus AB AP Calculus BC Differential Equations I (MAP2302) Calculus with Analytic Geometry III (MAC2313) Mu Alpha Theta Statistical Reasoning in Sports and Games AP Statistics <p><u>NATURAL SCIENCES:</u></p> <ul style="list-style-type: none"> Biology (General, Honors or Adv. Honors) Chemistry (General, Honors, or Adv. Honors) AP Biology 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 Medical Interventions Honors Biomedical Capstone Honors Human Body Systems Honors Diagnostics of the Brain Introduction to Astronomy 	<p><u>HISTORY & SOCIAL SCIENCES:</u></p> <ul style="list-style-type: none"> Honors Ancient History & Geography Honors Modern World History & Geography Honors United States History Honors Contemporary U.S. Government & Political History Honors Economics w/Financial Literacy AP World History: Modern AP United States History AP Macroeconomics AP U.S. Government & Politics AP Human Geography AP European History AP African American History World War I & II Civil War Introduction to Entrepreneurship Personal Finance Risk & Reward Intro to Psychology Theories of Personality Abnormal Psychology Contemporary Issues <p><u>WORLD LANGUAGES:</u></p> <ul style="list-style-type: none"> 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 <p><u>COMPUTER SCIENCE & ENGINEERING:</u></p> <ul style="list-style-type: none"> AP Computer Science Principles: Mobile AP Computer Science A Cybersecurity Fundamentals Engineering Design & Analysis 	<p><u>VISUAL & PERFORMING ARTS:</u></p> <ul style="list-style-type: none"> Foundations of Art Art Appreciation 2-D Studio Art I 2-D Studio Art II Ceramics/Pottery I Ceramics/Pottery II Digital Photography Graphic Design Honors Design Collaboration AP Art & Design Popular Music Foundations Popular Music Band Songwriting & Music Production AP Music Theory Theatre I Theatre II Musical Theatre Concert Band Strings I Strings II – Concert Orchestra Vocal Ensemble Beginner Dance Technique Intermediate Dance Choreography and Production Advanced Dance Performance and Competition Team <p><u>HEALTH & PHYSICAL EDUCATION:</u></p> <ul style="list-style-type: none"> HOPE – FLVS Strength Training <p><u>ELECTIVES:</u></p> <ul style="list-style-type: none"> DIS – Video Productions DIS – Communications and Marketing DIS – General Internship Study Hall Zero Period – Athletics <p><u>CONCENTRATIONS:</u></p> <ul style="list-style-type: none"> STEM: Biomedical STEM: Core Sciences STEM: Computer Science & Engineering Business & Entrepreneurship Arts, Inspiration, & Design Global Citizenship Journalism & Graphic Arts
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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 and Chemistry. Physics is recommended)	3
History/Social Science (must include Economics)	4
World Languages (must be the same sequential language, consecutive years)	2
Fine Arts	½
Health	½
Physical Education	½
Electives (must include 3 ½ credits of academic electives)	5 ½
Total Credits to Graduate	24

MY FOUR-YEAR ACADEMIC PLAN

SUBJECT	COURSES TAKEN/PLANNED				
	HS CREDITS (PRE-9 TH GRADE)	9 TH	10 TH	11 TH	12 TH
ENGLISH (ALL YEARS AT MACLAY)					
MATHEMATICS (4 CREDITS MIN.) MUST INCLUDE ALGEBRA I, GEOMETRY, & ALGEBRA II					
NATURAL SCIENCES (3 CREDITS MIN.) MUST INCLUDE BIOLOGY & CHEMISTRY. PHYSICS RECOMMENDED					
HISTORY/ SOCIAL SCIENCES (4 CREDITS MIN.) MUST INCLUDE ECONOMICS					
WORLD LANGUAGE (2 CREDITS MIN.) MUST BE SAME LANGUAGE IN SEQUENTIAL YEARS					
HEALTH ½ CREDIT REQUIRED					
PHYSICAL EDUCATION ½ CREDIT REQUIRED					
FINE ARTS ½ CREDIT REQUIRED					
COMPUTER SCIENCE AND ENGINEERING					

ENGLISH & LANGUAGE ARTS

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

Required Courses:

Completed	Grade	Course
	9	Honors English I or 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: Contemporary Literature
- Honors English IV: Southern Literature
- Honors English IV: Film as Literature
- Honors English IV: Mystery & Detective Literature
- Honors English IV: Women in Literature

Academic Electives:

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

ENGLISH & LANGUAGE ARTS

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:**
 - Strong teacher recommendation
 - A average in eighth-grade English
 - Exemplary standardized test scores in English (a score in at least the 75th percentile of cohort)
 - Exemplary performance on placement test
 - Departmental approval
 - Students who wish to enroll in Advanced Honors English I but do not meet all of the prerequisites must schedule an appointment with the department chair to discuss their placement. These meetings must be scheduled after spring break and before the last day of the semester.
- ❖ 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.

ENGLISH & LANGUAGE ARTS

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:**

- Strong teacher recommendation
- A- average in Advanced Honors English I or A average in Honors English I
- Exemplary standardized test scores in English (a composite PreACT8/9 English score of at least 24)
- Departmental approval
- Students who wish to enroll in Advanced Honors English II but do not meet all of the prerequisites must schedule an appointment with the department chair to discuss their placement. These meetings must be scheduled after spring break and before the last day of the semester.
- Students new to Maclay must take a placement test in addition to meeting the above prerequisites.

- ❖ **Note:** *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).

ENGLISH & LANGUAGE ARTS

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:**

- Strong teacher recommendation
- A- average in Advanced Honors English II or an A average in Honors English II
- Exemplary standardized test scores in English (a score in at least the 85th national percentile on the Evidence Based Reading and Writing Section of the PSAT)
- Departmental approval
- Students who wish to enroll in AP English Language and Composition but do not meet all of the prerequisites must schedule an appointment with the department chair to discuss their placement. These meetings must be scheduled after spring break and before the last day of the semester.
- Students new to Maclay must take a placement test in addition to meeting the above prerequisites.

❖ **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).

ENGLISH & LANGUAGE ARTS

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

AP English Literature & Composition

❖ **Prerequisites:**

- Strong teacher recommendation
- B+ average in AP English Language or an A average in Honors English III
- Exemplary standardized test scores in English (a score in at least the 80th national percentile on the Evidence Based Reading and Writing Section of the PSAT and/or a score of 3 or higher on the AP English Language and Composition exam)
- Departmental Approval
- Students who wish to enroll in AP English Literature and Composition but do not meet all of the prerequisites must schedule an appointment with the department chair to discuss their placement. These meetings must be scheduled after spring break and before the last day of the semester.
- Students new to Maclay must take a placement test in addition to meeting the above prerequisites.

❖ **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.



ENGLISH & LANGUAGE ARTS

Honors English IV: Mystery & Detective Literature

- ❖ **Offered:** *Second semester only; Open to juniors and seniors 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; Open to juniors and seniors 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.

Honors English IV: Film as Literature

- ❖ **Offered:** *One Semester, offered Both Semesters; Open to juniors and seniors only*
- ❖ 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.

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.

ENGLISH & LANGUAGE ARTS

Holocaust Literature & Film

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

Journalism I

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

Honors Journalism (Newspaper)

- ❖ **Prerequisites:** *Acceptance is by application and 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, Honors, or Advanced Honors)

Academic Core Electives:

- Math for College Readiness
- Advanced Honors Pre-Calculus/Trigonometry
- AP PreCalculus
- AP Calculus AB
- AP Calculus BC
- Differential Equations I ([MAP 2302](#))
- Calculus with Analytic Geometry III ([MAC 2313](#))
- Mu Alpha Theta
- Statistical Reasoning in Sports and Games
- Honors Probability & Statistics
- AP Statistics

MATHEMATICS

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.

MATHEMATICS

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.

Advanced 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

Math for College Readiness (NON-SENIORS ONLY)

- ❖ **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.*
- ❖ Students in this course will build upon the skills taught in Algebra 2, focusing on functions, systems of equations, quadratics, polynomials, and trigonometry. Students will also spend time working on standardized test prep.

MATHEMATICS

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 PreCalculus

- ❖ **Prerequisites:** Algebra II and faculty recommendation. Recommendation will be based on scores earned in previous math classes, PSAT, Pre-ACT, SAT, ACT and AP PreCalculus readiness assessment.
- ❖ **Note:** This course can be taken concurrently with AP Statistics. The College Board AP PreCalculus course outline is used. All students are required to take the AP exam in May.
- ❖ AP PreCalculus will have students algebraically manipulate functions, equations, and expressions. Students will translate mathematical information between representations, communicate with precise language, and provide rationales for conclusions.

AP Calculus AB

- ❖ **Prerequisites:** Advanced Honors Pre-Calculus/Trigonometry or AP PreCalculus, 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.

MATHEMATICS

AP Calculus BC

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

Differential Equations I (MAP2302)

- ❖ **Prerequisite:** A score of 4 or better on the AP Calculus BC exam
- ❖ **Offered:** 1st Semester
- ❖ **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 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
- ❖ **Offered:** 2nd Semester
- ❖ **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.

MATHEMATICS

Mu Alpha Theta

- ❖ **Note:** *This course does not fulfill the math graduation requirements.*
- ❖ Students in this course are required to participate in at least one math competition per semester. The material will be individualized for each student. The student will be challenged to critically analyze various situations in real world application.

Statistical Reasoning in Sports and Games (SENIORS ONLY)

- ❖ **Prerequisites:** *Algebra II*
- ❖ Statistical Reasoning in Sports and Games examines fascinating questions about sports and life by investigating the underlying statistical questions and creating a fun atmosphere in the classroom in which students perform simulations, analyze data, and use simple randomization processes to develop and understanding of statistics. Students will also examine probability through card games and board games.

Honors Probability & Statistics

- ❖ **Prerequisites:** *Algebra II*
- ❖ 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, AP PreCalculus or AP Calculus. All students are required to take the AP exam in May.*
- ❖ This course is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Topics covered are 1) exploring data: observing patterns and departures from data; 2) planning a study: deciding what and how to measure; 3) anticipating patterns: producing models using probability and simulation; 4) statistical inference: confirming models.

NATURAL SCIENCES

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

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

All students will be required to take a diagnostic exam, in class, for placement in biology and chemistry classes. These results are used with math and science grades, track my progress, 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	Science Elective (Physics Recommended)

Academic Core Electives:

- AP Biology
- AP Chemistry
- Honors Physics
- AP Physics C: Mechanics
- AP Physics C: E&M
- Honors Brain and Behavior
- Honors Marine Biology
- Honors Principles of Biomedical Sciences
- Honors Medical Interventions
- Honors Biomedical Capstone
- Honors Human Body Systems
- Honors Diagnostics of the Brain
- Introduction to Astronomy

NATURAL SCIENCES

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:** *Placement into Advanced Honors Biology is based on a combination of 8th grade science and math grades, track my progress, placement test, and teacher recommendation. Students who wish to enroll in Advanced Honors Biology but do not meet all of the criteria must schedule an appointment with the department chair to discuss their placement. These meetings must be scheduled after spring break and before the last day of the semester.*
- ❖ 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.

NATURAL SCIENCES

Chemistry (Choose One)

Chemistry

- ❖ **Prerequisites:** *Biology, Algebra I*
- ❖ 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, 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:** *Honors Biology, Honors Geometry. Consideration of placement into Advanced Honors Chemistry is based on a combination of 9th grade science and math grades, placement test score, and teacher recommendation. Students who wish to enroll in Advanced Honors Chemistry but do not meet all of the criteria must schedule an appointment with the department chair to discuss their placement. These meetings must be scheduled after spring break and before the last day of the semester.*
- ❖ 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.

NATURAL SCIENCES

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, graphing and data analysis software, and physics apparatus, is used throughout this course.

Academic Core Electives

AP Biology

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

NATURAL SCIENCES

AP Chemistry

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

AP Physics C: 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.

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.

NATURAL SCIENCES

Honors Principles of Biomedical Science

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

Honors Medical Interventions

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

Honors Biomedical Capstone

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

NATURAL SCIENCES

Honors Human Body Systems

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

Introduction to Astronomy

- ❖ **Offered:** *First Semester Only*
- ❖ **Prerequisite:** *Algebra II*
- ❖ 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.

Honors Diagnostics of the Brain

- ❖ **Offered:** *Second Semester Only; Open to seniors only*
- ❖ **Prerequisites:** *Biology and Chemistry. Parental permission.*
- ❖ This course, formally Abnormal Psychology in Film, 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.

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

SOCIAL SCIENCE ACADEMIC ELECTIVES:

- Introduction to Entrepreneurship
- Personal Finance
- Risk and Reward
- Intro to Psychology
- Theories of Personality
- Abnormal Psychology
- Contemporary Issues

HISTORY AND SOCIAL SCIENCE

Grade 9 (Choose One)

Honors Ancient History & Geography

- ❖ The first semester of this year-long course begins with tracing the emergence of the first civilizations in Mesopotamia and the Near East through Classical Greece and the Hellenistic World. The influence of geography on civilizations, as well as map skills, will be studied all year. Course work will develop an understanding of the ancient world's societies through a study of Mesopotamia, Egypt, the Ancient Middle East, and Greece. The second semester charts the rise and fall of the Roman Empire, the emergence of Christianity, feudalism, Islam, the Crusades, and Mongol invasions. This course will focus on enhancing skills such as note-taking, active reading, and analytical writing. This will be facilitated through the use of secondary and primary sources.

AP Human Geography (9th Grade Section)

- ❖ **Prerequisites:**
 - Strong teacher recommendation
 - A average in eighth-grade History
 - Exemplary standardized test scores in English (a score in at least the 75th percentile of cohort)
 - Exemplary performance on placement test
 - Departmental approval
- ❖ **Note:** *All students are required to take the AP exam in May.*
- ❖ This course will be exploring the people, the world, and how the two interact, while also preparing Freshmen for future AP courses in the history department. Students will learn test-taking tips for AP style questions, while also learning how to be active readers at an AP level. 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.

HISTORY AND SOCIAL SCIENCE

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 continue the history department's focus on developing students' writing, note-taking, critical thinking, and active reading skills. Students will also spend considerable time analyzing world geography.

AP World History: Modern

- ❖ **Prerequisites:**

- Strong teacher recommendation
- A- average in AP Human Geography or A average in Honors Ancient History & Geography
- Exemplary standardized test scores in English (a composite PreACT8/9 English score of at least 24)
- Departmental approval

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

- ❖ This course seeks to provide students with an understanding of the world's history and societies. In addition to examining the major trends, people, places and events of the world's history, special emphasis will be placed on encounters and interactions among societies. It will help students expand their reading and writing skills, and it will foster critical thinking. The course will encourage students to develop their own abilities and to be part of the learning process. The long-term objective is for students to demonstrate an understanding of how the big picture of world history assists in understanding the complexities of today's world.

HISTORY AND SOCIAL SCIENCE

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 continue the history department's focus on developing students' writing, note-taking, critical thinking, and active reading skills. This will be facilitated through the use of secondary and primary sources.

AP United States History

- ❖ **Prerequisites:**
 - Strong teacher recommendation
 - A- average in AP World History or an A average in Honors World History & Geography
 - Exemplary standardized test scores in English (a score in at least the 85th national percentile on the Evidence Based Reading and Writing Section of the PSAT)
 - Departmental approval
- ❖ **Note:** *This course is open only to juniors. All students are required to take the AP exam in May. Class size is limited. *This course exempts the requirement to take the Honors Contemporary U.S. Government and Political History course. Students taking AP U.S. History must, therefore, take an additional semester of history elective and economics (usually in their senior year) in order to meet the History Department's requirements.*
- ❖ This is a college-level U.S. history course. Students cultivate their understanding of U.S. history from the pre-Columbian Era to the 21st century through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures. This is a labor intensive course that **REQUIRES** exceptional time management skills coupled with above average active reading skills.

HISTORY AND SOCIAL SCIENCE

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

AP United States Government & Politics

- ❖ **Prerequisites:**
 - Strong teacher recommendation
 - A- average in AP U.S. History or an A average in Honors U.S. History
 - Exemplary standardized test scores in English (a score in at least the 80th national percentile on the Evidence Based Reading and Writing Section of the PSAT and/or a score of 3 or higher on the AP English Language and Composition exam)
 - Departmental Approval
- ❖ **Offered:** *Only offered first semester*
- ❖ **Note:** *This course is offered to only Seniors and Juniors. All students are required to take the AP exam in May. Class size is limited.*
- ❖ This course is designed to provide students with a learning experience equivalent to an introductory college course in American Government. Students will study the U.S. Constitution and its foundations in the current political system. Students will become familiar with individuals, ideas, and groups that influence the government. This course is designed to provide students with the information necessary to become active participants in the American system of government.

HISTORY AND SOCIAL SCIENCE

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 make this course particularly relevant to everyday life and deepen the understanding of the causes and effects of economic changes.

AP Macroeconomics

- ❖ **Prerequisites:**
 - Strong teacher recommendation
 - A- average in AP U.S. History or an A average in Honors U.S. History
 - Exemplary standardized test scores in English (a score in at least the 80th national percentile on the Evidence Based Reading and Writing Section of the PSAT and/or a score of 3 or higher on the AP English Language and Composition exam)
 - Departmental Approval
- ❖ **Offered:** *Only offered second semester*
- ❖ **Note:** *This course is offered to Seniors. Juniors may take this course with History Department approval **ONLY**. All students are required to take the AP exam in May.*
- ❖ This course seeks to give students a thorough understanding of the principles of economics that apply to an economic system. The course will also introduce the concept of the business cycle to give students an overview of economic fluctuations and to highlight the dynamics of unemployment, inflation, and economic growth. Emphasis is placed on the study of national income and price-level determination. This course will also develop students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics.

HISTORY AND SOCIAL SCIENCE

HISTORY ACADEMIC CORE ELECTIVES

AP European History

- ❖ **Note:** This course is offered to only Seniors and Juniors. Sophomores will ONLY be admitted with History Department approval. All students are required to take the AP exam in May.
- ❖ This course is a college-level introductory European history course. Students cultivate their understanding of European history by analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like the interaction of Europe with the rest of the world, economic and commercial developments, cultural and intellectual developments, states and other institutions of power, social organization and development, national and European identity, as well as technological and scientific innovation.

AP Human Geography

- ❖ **Note:** This course is offered to Seniors and Juniors. All students are required to take the AP exam in May. Class size is limited.
- ❖ This course is all about exploring the people, the world, and how the two interact, while also preparing Freshmen for future AP courses in the history department. Students will learn test-taking tips for AP style questions, while also learning to read at an AP level. We explore all sorts of topics like population dynamics, culture, urbanization, sustainability, and more. Students will leave this class with a better understanding of global issues, current events, and how to make the world a better place.

AP African American History

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

HISTORY AND SOCIAL SCIENCE

World War I & II

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

Civil War

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

HISTORY AND SOCIAL SCIENCE

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

HISTORY AND SOCIAL SCIENCE

Risk & Rewards

- ❖ **Prerequisites:** *Intro to Entrepreneurship or Personal Finance*
- ❖ **Offered:** *One Semester, Offered Both Semesters*
- ❖ **Note:** *This course is open to Seniors only. Juniors must obtain department approval.*
- ❖ This course introduces students to basic principles of macroeconomics, the risks and rewards associated with investment and business, key principles for running a successful company and managing an effective stock market portfolio, how to maximize rewards and minimize risks, and the lessons of financial failure/loss/and recovery. The course culminates in a final six-week real world entrepreneurial experience where students will invest small shares of the school's investment funds in a stock market portfolio and/or a pre-approved personal business.

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.

HISTORY AND SOCIAL SCIENCE

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.

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
- Classical Greek I

WORLD LANGUAGES

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 and will challenge the more motivated students. Students will be challenged from day one to master the previous content and move forward to study grammar in an explicit as well as applied format. The course will interact with the history of Spain and Latin America to offer an application of liberal arts education to the study of language and culture. The class will be conducted in Spanish as much as possible and will provide a grammatical basis for students seeking to continue in Spanish, and emphasizes skills in conversational speaking, listening, writing, and reading and lead to 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 and more sophisticated grammar structures. Listening, speaking, reading, and writing skills will continue to be emphasized. Most of the course will be taught in Spanish. Culture topics and readings are presented to give an authentic view of the Hispanic world. To help students develop proficiency with their interpersonal speaking skills in Spanish, they will be required to complete 3-4 conversations via the TalkAbroad program.

WORLD LANGUAGES

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 more sophisticated grammar structures are implemented. Culture study and short narratives provide reading practice appropriate at this level. While students will be pushed to use the language at a higher proficiency level, 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. To help students develop proficiency with their interpersonal speaking skills in Spanish, they will be required to complete 3-4 conversations via the TalkAbroad program.

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

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.

WORLD LANGUAGES

AP Spanish Language & Culture

- ❖ **Prerequisites:** *Advanced Honors Spanish IV*
- ❖ **Note:** *All students are required to take the AP exam in May and will be capped at 12.*
- ❖ The three modes of communication—Interpretive, Interpersonal, and Presentational—defined in the World Readiness Standards for Learning Languages, are foundational to the AP Spanish Language and Culture course. The AP course provides students with opportunities to demonstrate their proficiency in each of the three modes in the Intermediate to Advanced range, as described in the ACTFL Performance Descriptors for Language Learners. As such, the course has been designed to provide students with a rich and rigorous opportunity to study the language and culture of the Spanish-speaking world.
- ❖ The AP Spanish Language and Culture course takes a holistic approach to language proficiency and recognizes the complex interrelatedness of comprehension and comprehensibility, vocabulary usage, language control, communication strategies, and cultural awareness. Students will review language structures in context and will use them to convey meaning. Language structures will be addressed according to how they serve the communicative task and not as an end goal unto themselves.
- ❖ The AP Spanish Language and Culture course strives to promote both fluency and accuracy in language use and avoid overemphasis on grammatical accuracy at the expense of communication. In order to best facilitate the study of language and culture, the course will be taught primarily in the target language.

WORLD LANGUAGES

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

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 while enriching the scope of vocabulary and authentic cultural exposure. Culture and literary passages are studied with the goal of improving reading, oral, and listening comprehension. Authentic resources will be used often, and students will have ample opportunity to express themselves in spoken and written French.

Advanced Honors French IV

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

WORLD LANGUAGES

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 greater fluency in French, in both written and spoken communication. To this end, vocabulary, grammar, syntax, and style are explored through a variety of different materials, including newspaper and magazine articles, literary texts, and other non-technical writings, which will eventually be read and discussed without dependence on a dictionary. In addition, the students will develop an ability to express themselves coherently, resourcefully, and accurately in both written and spoken French. Spoken communication is explored through materials drawn from a variety of audio and video recordings, while subjects for discussion may come from virtually any French/francophone source. Finally, the writing of engaging, clear, concise, and organized compositions will also be emphasized.

WORLD LANGUAGES

REQUIRED LATIN COURSES

Latin I

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

Honors Latin II

- ❖ **Prerequisites:** *Latin I or 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.

WORLD LANGUAGES

AP Latin

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

Classical Greek I

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

COMPUTER SCIENCE & ENGINEERING

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

Academic Computer Science Courses

- AP Computer Science Principles: Mobile
- AP Computer Science A
- Cybersecurity Fundamentals (Pilot Year)
- Engineering Design and Analysis

COMPUTER SCIENCE & ENGINEERING

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.

Cybersecurity Fundamentals (Pilot year)

- ❖ **Prerequisite:** AP Computer Science Principles: Mobile or AP Computer Science A or Teacher Approval
- ❖ **Note:** This course receives 1.0 additional weight. This is the same weighting AP courses receive. The course is designed to be equivalent to a collegiate Introduction to Cybersecurity. Per College Board, college credit will not be available during the pilot.
- ❖ Cybersecurity Fundamentals is a full year course covering the fundamentals of cybersecurity equivalent to a collegiate Introduction to Cybersecurity course. Students learn about legal and ethical concerns relevant to cybersecurity and the current cyber threat landscape. Students study how vulnerabilities create risk and how organizations implement security controls to manage that risk. Topics in the course include security controls, physical, operational, application, and network security, cryptography, access control, attacks and detection, response, and recovery. Students will research emerging trends in cybersecurity and get hands-on experience implementing security on computers.

Engineering Design & Analysis

- ❖ ***In course requirement:*** *Students will sign up for dual-enrollment and submit all requirements. It is not a requirement that students are selected to participate in dual-enrollment after their submission*
- ❖ ***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.

VISUAL & PERFORMING ARTS

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

NON-ACADEMIC VISUAL ARTS COURSES

- 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

ACADEMIC PERFORMING ARTS COURSES

- Popular Music Foundations
- Popular Music Band
- Songwriting and Music Production
- AP Music Theory
- Theatre I – Foundations of Theatre Arts
- Theatre II
- Musical Theatre

NON-ACADEMIC PERFORMING ARTS COURSES

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

VISUAL ARTS

Non-Academic Visual Arts 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 Visual Arts Courses

2-D Studio Art I

- ❖ **Offered:** *One Semester, Offered Both semesters*
- ❖ **Prerequisite:** *Foundations of Art or Art Appreciation*
- ❖ **Note:** This class serves as an intermediate course for students to continue developing their artistic skills. There is no faculty approval or discussion needed. This course will follow some of the same structure as Studio Art II but with a focus on creating a strong foundation of 2-D art skills.
- ❖ Students develop and refine technical skills and create two-dimensional compositions with a variety of media in drawing, painting, and/or design. Student artists 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. This course will include a combination of thematically lead class projects such as portraiture, figure, and expression in conjunction with student lead projects.

VISUAL ARTS

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. Artisanship, 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.

2-D Studio Art II

- ❖ **Prerequisites:** *2-D Studio Art I or faculty approval*
- ❖ **Note:** All students are welcome to take this class; however, this class is for dedicated student artists seeking to improve their skills and create high quality artwork. This course is also 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. This class is designed for highly self-motivated and artistically gifted upper classmen 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.
- ❖ In this year-long advanced art course students will research and execute instructor lead, self-directed, and/or collaborative two-dimensional artwork projects 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 II

- ❖ **Offered:** *Second semester only*
- ❖ **Prerequisite:** *Foundations of Art or Art Appreciation, Ceramics/Pottery I, and 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.

VISUAL ARTS

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.

VISUAL ARTS

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 Performing Arts Courses

Popular Music Foundations (no public performances)

- ❖ **Offered:** *One Semester, Both semesters*
- ❖ Intended for students with limited or no musical background, this course covers the basics of playing and understanding popular music (i.e. rock, pop, folk, hip-hop, etc.) Students will be taught how to play fundamental chord progressions and melodies on the guitar and (piano) keyboard while also learning the essential principles of how popular music works (aka music theory). While students play music instruments in class, they will not perform publicly. However, upon completing the class, students will be equipped to take Popular Music Band (i.e. rock/pop band), Songwriting & Music Production, and Music Club.

Popular Music Band (public performances)

- ❖ **Offered:** *One Semester, Both Semesters*
- ❖ **Prerequisite:** *Popular Music Foundations (or equivalent), or some experience playing music alongside approval by Dr. Spotts*
- ❖ Students with foundational experience playing music will form a rock/pop band within the class to play songs of their selection. Students have the choice of playing acoustic or electric guitar, piano, keyboard/synthesizer, vocals, bass guitar, and drum set (electronic). Supplemental topics include historical context and music theory. The band usually performs a couple of times during the semester and records one or two performance videos (examples at <https://www.maclay.org/arts/performing-arts/performance-links>).

Songwriting & Music Production

- ❖ **Offered:** *One Semester, may be repeated*
- ❖ **Prerequisite:** *Popular Music Foundations (or equivalent), or approval by Dr. Spotts*
- ❖ 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 finished recordings.

PERFORMING ARTS

AP Music Theory

- ❖ **Prerequisites:** Basic ability to read music and approval by Dr. Spotts
- ❖ **Offered:** Yearlong course
- ❖ **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 the first semester of 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.

PERFORMING ARTS

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

Strings II – Concert Orchestra

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

PERFORMING ARTS

Vocal Ensemble (Glee)

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

Beginner Dance Technique (Dance/ PE Level 1)

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

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

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

PERFORMING ARTS

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

- ❖ **Prerequisite:** *Audition or Instructor Approval. Must earn and maintain a cumulative 3.0 GPA for NHSDA Induction.*
- ❖ **Note:** Fulfills Graduation Requirement for Visual/Performing Arts or PE.
- ❖ This class is designed for advanced dance students. Students create and express themselves through improvisation, composition, and performance. Students will perform in several styles of dance in their historical and cultural contexts, including ballet, modern, jazz, hip-hop, jazz/funk, and various cultural genres. Students analyze, compare, and contrast their work and critique their artistic development. The Advance Dance class will perform as a part of the Dance Preparatory in the Winter Showcase and Perform with the Spring Showcase as well as participating in a regional dance competition. Students enrolled in this class are eligible for membership into the National Honors Society of Dance Arts (NHSDA). These inducted students will earn honor cords for their graduations and will be able to have the honor on all college applications. It is strongly encouraged to participate in outside training in ballet and contemporary dance genres to compete at this level.

HEALTH & PHYSICAL EDUCATION

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

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

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

REQUIRED COURSES*

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

PHYSICAL EDUCATION

AVAILABLE COURSES

HOPE – FLVS

- ❖ This course guides student to be active and healthy now and for a lifetime. Effective strategies and techniques are a foundation of the course so that students can continually make improvements in all areas of wellness. Students, with the guidance of a training instructor, set personal goals in four areas of wellness: physical, emotional, social, and academic. Fitness assessments enable students to establish baseline levels of fitness and work toward improvement in specific areas. At the end of each module, students submit a wellness plan documenting their daily physical activity, progress toward goals, changes in fitness assessment results, and reflections on personal progress.

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

- Directed Individual Studies (DIS) – Video Production
- Directed Individual Studies (DIS) – Communications and Marketing
- Directed Individual Studies (DIS)
- Internship
- Study Hall
- Zero Period – Athletics

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.

ELECTIVES

Directed Individual Studies

- ❖ **Note:** Approval by Academic Advisor and Academic Dean 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. Max weight earned for DIS is .5.

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, enrichment, 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.

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.

Zero Period – Athletics

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

CONCENTRATIONS

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

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

At all levels, the curriculum is enhanced by contact with health professionals:

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

STEM CORE REQUIREMENTS

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

Mathematics (4 Credits)	Science (2 Credits)
<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)

CONCENTRATIONS

Biomedical Sciences

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

Additional Required Courses for this track: (4 credits)

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

Core Sciences

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

Class of 2025

Additional Required Courses for this track: (4 credits)

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

CONCENTRATIONS

Core Sciences (continued)

Beginning with the class of 2026

Additional Requirements

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

Computer Science & Engineering

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

Additional Required Courses for this track: (4 credits)

- ❖ Honors Physics or AP Physics C: Mechanics
- ❖ Three of the following courses
 - Computer Programming and Cyber Security
 - AP Computer Science A
 - AP Computer Science Principles
 - Engineering Design and Analysis
- ❖ Completion of Capstone Project - must be approved by concentration sponsor

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)❖ Pre-Calculus/Trigonometry	<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
- ❖ Completion of Capstone Project

CONCENTRATIONS

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) or Honors Design Collaboration

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

❖ **3-D Studio Art Courses:**

- Ceramics/Pottery I
- Ceramics/Pottery II

Additional Required Participation (2 events):

❖ **Events:**

- Come Together Art Exhibition
Celebration of the Arts

Capstone:

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

CONCENTRATIONS

Global Citizenship

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

CORE REQUIREMENTS

- ❖ Minimum Four Sequential Years of a World Language

Additional Requirements for this concentration:

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

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

❖ **Global Mindset:**

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

CONCENTRATIONS

Journalism & Graphic Arts

CORE REQUIREMENTS

- ❖ Required Courses (B Average):
 - Foundations of Art
 - Journalism I
 - Art Appreciation or Digital Photography (Recommended Prerequisite)
 - Two Sequential Years in Journalism: Newspaper, Journalism: Yearbook, or Video Production*

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

GOALS FOR CONCENTRATION

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