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GRADES 7-12

CURRICULUM HANDBOOK

MADISON ACADEMY



YOUR JOURNEY STARTS HERE

Helping students grow in wisdom, in stature, and in favor with God and man.

MISSION OF MADISON ACADEMY

“To provide a quality education in a Christian environment that will help students grow in wisdom and stature and in favor with God and man.”

A Christian education provides our students with an understanding of their relation to God and the world in which we live. Our goal is to meet the needs of each child so that he/she can live a life that will please and glorify God.

We pledge. . .

. . .to develop Christian attitudes, which go hand-in-hand with traditional American ideals of good citizenship.

. . .to provide high-quality learning experiences and honest evaluation of our students and ourselves.

. . . to relate Biblical principles to everything that is taught, both in the classroom and in all school-sponsored activities.

THIS CURRICULUM HANDBOOK IS IN TWO PARTS:

Part One: Academic and Co-Curricular policies that explain the requirements for earning a Madison Academy Diploma, Standard or Advanced.

Part Two: Course Catalog that includes core course pathways and descriptions and current elective offerings

Thank you for choosing Madison Academy. Our staff, faculty, and volunteer board of directors strive to faithfully administer the Lord’s work at MA in keeping with our mission, and we look forward to serving your family in God’s name.

The Administration and Board of Directors of Madison Academy

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INTRODUCTORY INFORMATION

NON-DISCRIMINATION STATEMENT

Madison Academy is a Christian school open to any qualified student without regard to race, religion, sex, color, national or ethnic origin, or physical handicap. In a manner consistent with all applicable laws and regulations, it does not discriminate on the basis of race, religion, sex, color, national or ethnic origin, or physical handicap in the administration of its educational policies, programs, and activities except where necessitated by specific religious tenets held by the institution.

ACCREDITATION

Madison Academy is fully accredited by Cognia, formerly known as AdvancED and Southern Association of Colleges and Schools (SACS) and by the National Christian School Association (NCSA).

ACADEMIC POLICIES

GRADES, GRADING SCALE, GPA, REPORT CARDS

- **Grades** are available online for parents and students to check through FACTS and Canvas. With the accessibility of this information, we encourage you to monitor your child's grades on a regular basis. For those families without online availability, printed progress will be available upon request. Please check with the Upper School office for grade access directions.
- **Grading scale:** A=90-100 B=80-89 C=70-79 D=65-69 F=0-64
- **WGPA** (Weighted Grade Point Average) for colleges will include all subjects. This average includes all core courses, electives, Bible, and bonus points for classes designated as AP, Dual-Enroll, and Honors classes.
- **GPA** (Grade Point Average) will be used for some in-school recognition and participation in programs. The GPA and equivalent Numeric Average includes the four core academic subjects: math, science, history, and English, plus Bible. Transcripts will show both GPAs and contain an explanation regarding the differences.
- **Report cards** will be issued at the end of each 9-week grading period electronically. If you do not receive a report card, please contact the Upper School office.
- **NOTE:** Students/parents have one (1) year in which to report and correct any discrepancies regarding grades/semester exams. Academic support material, grade books and semester exams will only be kept for twelve months.

PARTICIPATION GRADES for ALL 7-12 ELECTIVE AND BIBLE COURSES:

Participation grades will be given to students in all elective and Bible courses grades 7-12 based on the following Madison Academy **Classroom Rules**. These rules are as follows:

- **Be on Time**
- **Be Prepared** with assignments, book, pencil and paper, Chromebook or MacBook
- **Be Courteous** and use positive, appropriate language
- **Show respect** for self, classmates and teacher
- **Be Responsible** and work productively

The **Participation Grade** will make up a percentage of each student's overall grade in the elective or Bible class.

Diploma Requirement Checklist

Class of 2025 +

Student Name: _____

Diploma Type: Reg Adv

Date: _____ Grade: _____

Credits Earned: _____

English - 4 credits

_____ English 9 or Honors English 9
_____ English 10 or Honors English 10
_____ English 11 or Honors 11 or AP
_____ English 12 or Honors 12 or DE or AP

Social Studies - 4 credits

_____ 9th - World History 9 - required
_____ 10th - US History I (Early to 1877) – required
or Honors US History I
_____ 11th - US History II (1877 to Present) – required
or US History II (Honors or DE)
_____ 12th - US Government/Economics - required

Math - 4 credits

_____ Algebra I
_____ Geometry
_____ Algebra II or Algebra II/Trig

Science - 4 credits

_____ Biology
_____ Physical Science or Honors Chemistry

Bible - 4 credits

_____ Bible 9 _____ Bible 10
_____ Bible 11 _____ Bible 12

Foreign Language - 2 credits

Required for Advanced Diploma, Must be in the same language

_____ Foreign Language I _____
_____ Foreign Language II _____

Required Electives - 1.5 credits

_____ 1/2 credit of Health
(OR 2 semesters of Human A&P)
_____ 1 credit of LIFE PE
NOTE: 1 Sem of MARCHING BAND may
fulfill 1/2 PE requirement.

Notes:

Advanced Diploma additional requirements:

1. Must include an Advanced Diploma Math class
(Algebra 1 or above) each year in grades 9-12
and must include at least 2 HN/DE/AP credits in grades 10-12
2. Biology, Honors Chemistry 1, plus 2 additional advanced sciences
and must include at least 2 HN/DE/AP Science credits in grades 10-12
3. Must include at least 2 HN/DE/AP English credits in grades 10-12
4. Must include at least 2 HN/DE/AP Social Studies credits in grades 10-12
5. Two credits in the same foreign language in grades 9-12
6. No semester average below a 70 in any class

Electives - 4.5 credits

DIPLOMAS

Students have a choice of two types of diplomas -- Standard or Advanced.

NOTE: STUDENTS MUST MAINTAIN A 70+ AVERAGE PER SEMESTER IN EACH COURSE TAKEN (Bible & Electives included) TO RECEIVE AN ADVANCED DIPLOMA.

MA DIPLOMA TRACKS (Class of 2025+)

Standard Diploma - 26 credits	Advanced Diploma - 28 credits
<p>4 credits of Bible</p> <p>4 credits of English</p> <p>4 credits of Social Science</p> <p>4 credits of Science – (Must include Biology I and a physical science)</p> <p>4 credits of Math – (Must include Algebra I, Geometry, and Algebra II)</p> <p>½ credit of Health (or 2 semesters of Human Anatomy & Physiology)</p> <p>1 credit of P.E.</p> <p>4.5 credits of Electives</p>	<p>4 credits of Bible</p> <p>4 credits of English – (Must include at least 2 HN/DE/AP credits in grades 10-12)</p> <p>4 credits of Social Science – (Must include at least 2 HN/DE/AP credits in grades 10-12)</p> <p>4 credits of Science – (Must include Biology I, Honors Chemistry I, and 2 additional advanced Sciences and must include at least 2 HN/DE/AP courses in grades 10-12)</p> <p>4 credits of Math – (Must include an Advanced Diploma Math course [Algebra 1 or above] each year in grades 9-12 and must also include at least 2 HN/DE/AP courses in grades 10-12)</p> <p>2 credits of Foreign Language – (Must be 2 sequential credits in the same language in grades 9-12)</p> <p>½ credit of Health (or 2 semesters of Human Anatomy & Physiology)</p> <p>1 credit of P.E.</p> <p>4.5 credits of Electives</p>

Standard Diploma - This diploma track satisfies the Alabama state requirements for high school graduation. This track awards a full high school diploma.

Advanced Diploma - This diploma track, in addition to meeting Alabama state requirements, meets/exceeds the requirements students need for admission to most 4 year universities. There is no designation of Advanced Diploma on transcripts or the diploma.

*****It is recommended that students evaluate their post-graduation plans to determine the track or courses that best meet their needs.**

BONUS CREDIT FOR HONORS, DUAL-ENROLLMENT, AND AP COURSES

• Honors Courses

Due to the rigorous curriculum, certain courses have been designated as “Honors.” Students participating in honors courses in grades 9-12 will receive one-half quality point in their cumulative grade-point average calculation in recognition of the difficulty of the course.

• Dual Enrollment and Dual Credit

- There are two distinct opportunities allowed by Madison Academy in reference to Dual Enrollment and/or Dual Credit. Additional details on these two opportunities are further defined below.**

- Participation in Dual Enrollment and Dual Credit courses will receive a maximum of ½ high school credit per semester for each course taken.**

1. Dual Enrollment is an option available to juniors and seniors through arrangements made with Calhoun Community College, University of North Alabama, and Faulkner University. Through this program, a qualified student may enroll in the approved core courses taught by MA faculty on the MA campus to earn high school credit while also earning college credit. Students participating in Dual-Enrollment courses may receive an additional one-point bonus in their cumulative grade-point average calculation in recognition of the college equivalency and difficulty of the course. The bonus is not offered to courses delineated as remedial or preparatory. The class taken must be a class pre-approved by Madison Academy. The student also must meet requirements set by the college. The student is responsible for prompt payment of all Dual Enrollment fees to the college. Students should inquire with their choice of college for details regarding acceptable transfer credits.
2. Dual Credit is an option available to sophomores, juniors, and seniors through an arrangement made with UA Early College, Auburn First, Calhoun Community College, University of Alabama Huntsville, or any other pre-approved post secondary institution. This opportunity allows students to diversify their course track by enrolling in courses NOT offered at Madison Academy in lieu of a credit at MA.
 - a. Core Courses - A student may seek pre-approval to take a core course at the college level that will replace their diploma requirement at MA. Depending on the rigor of the course, it may be calculated on the bonus point grading scale per the grading guidelines in the curriculum handbook. (Administration will evaluate the rigor of the course using the course description in comparison with our course offerings at MA.)
 - b. Electives - A student may seek pre-approval to take an elective course at the college level that will be taken in place of an elective offered at Madison Academy. A student may not be

able to take courses concurrently that would result in more than 8 credits. In the event a student takes an additional elective (above and beyond 8 courses in one semester), the elective dual credit courses will not be placed on the transcript. Elective Dual Credit Courses do not qualify for the bonus point grading scale.

- **Advanced Placement (AP)**

Advanced Placement (AP) students will be required to take the AP exam. Colleges participating in the AP program give college credit for a passing score. Students should inquire with their choice of college for details regarding acceptable scores. Students participating in Advanced Placement courses receive an additional 1 point bonus on their cumulative grade-point average calculation in recognition of the college equivalency and difficulty of the course. AP test fees will be added to the school bill.

BRIDGE

For students in grades 7 through 12, Madison Academy offers a program to assist students who need extra support in organizational skills and study skills to be able to successfully navigate our college preparatory curriculum. Students must qualify to be part of this program and numbers are limited; contact the BRIDGE Director for information.

FAILURE POLICY

Grades 7-12 Any Bible course failure in middle or high school must be made up by assigned extra work during the summer. Students who fail any subject for the year should see the Dean of Students regarding available/approved options for make-up credit.

Grades 7-8, any failed academic core subject (English, math, social studies, or science) must be taken in summer school. If two (2) or more major subjects are failed, the student may be required to repeat the grade. Failures are based on yearly averages. A student repeating a grade may or may not be allowed to return to Madison Academy, based on the decision of the Admissions Committee.

Grades 9-12, any subject that is failed and is required for graduation must be taken in summer school or through a virtual option. Failures are based on yearly averages.

SUMMER SCHOOL AND CREDIT RECOVERY

Courses repeated in summer school—through online courses or at MA—must be approved by the administration. Such courses will not earn hour credit; however, these grades will be reflected on the permanent record.

- Summer school, credit recovery grades and repeated courses cannot be applied toward the Advanced Academic Diploma (Students successfully completing a credit recovery course will receive a maximum grade of 70).
- Make-up work must be completed by the first Fall contest for AHSAA eligibility purposes.
- **Credit Recovery does not count toward NCAA eligibility** (*but is acceptable for AHSAA*).

SPECIAL EDUCATION POLICY

While Madison Academy's smaller class sizes and enriched academic environment have helped students with mild special learning needs to succeed academically in a college preparatory curriculum, MA has no special education program and will not be responsible for the inability of students with special needs (ADD, LD, ADHD, etc.) to successfully meet the academic or behavioral requirements.

TRANSCRIPT RELEASE

Transcripts of a student's record will be released by the college counselor to educational institutions, parents, or the student for any requested purpose without cost.

- The request must come via Parchment Exchange from the parents or guardian or student of legal age.
- No transcript will be released unless the financial account to MA is current.
- For transcripts to be sent to a college, students must register via Parchment Exchange. Juniors and Seniors will be given a code.

TRANSFER STUDENTS AND COURSE PLACEMENT

Transfer credit will be evaluated on an individual basis referring to official transcripts and course descriptions. Proficiency evaluations may be needed for class placement. Recognition of credit earned:

- Madison Academy recognizes credit earned from other schools that are associated with the regional or state accrediting agencies.
- All students transferring in from another school will be required to take the ISEE (Independent School Entrance Exam) to determine proper placement.
- No duplicate enrollment for credit is permitted.
- All prerequisite courses must be completed before a student advances to the next level.

VIDEO POLICY

Movie ratings of "G," "PG," and "PG-13" are generally acceptable in grades 7-12 without prior parent notification (teachers are asked to review PG-13 movies closely to be sure the content is not inappropriate). The movie/video must contain content with educational value and/or be relevant to the course. Teachers of grades 9-12 who wish to show educational movies/videos that are rated "R" **must** do the following:


- Present rationale of the educational value to the administration for approval.
- Send home a permission form to be signed by parents. Students not receiving parental permission to view the movie/video must be given an alternative assignment and not penalized grade-wise.

COURSE CATALOG

Madison Academy offers a challenging curriculum designed to prepare students for successful transition to the four-year university program. A variety of elective offerings give students the opportunity to explore additional subjects of personal interest, especially in the area of fine arts.

CORE SUBJECTS

COURSE OFFERINGS

 BIBLE & SPIRITUAL FORMATION	 ENGLISH	 SOCIAL SCIENCE (HISTORY) COURSES	 SCIENCE	 MATH
GRADE 7 - 12 • BIBLE GRADE 10 - 11 • SPECIAL TOPICS BIBLE GRADE 10 - 11 • FOUNDATIONS OF SPIRITUAL FORMATION GRADE 11 - 12 • STUDENT SPIRITUAL FORMATION GRADE 12 • GIRLS SENIOR BIBLE • BOYS SENIOR BIBLE	GRADE 7 • ENGLISH 7 GRADE 8 • ENGLISH 8 GRADE 9 • ENGLISH 9 • HONORS ENGLISH 9 GRADE 10 • ENGLISH 10 • HONORS ENGLISH 10 GRADE 11 • ENGLISH 11 • HONORS ENGLISH • DUAL ENROLLMENT ENGLISH • AP LANGUAGE GRADE 12 • ENGLISH 12 • AP LITERATURE • DUAL ENROLLMENT / HONORS ENGLISH	GRADE 7 • SOCIAL STUDIES 7 GRADE 8 • WORLD HISTORY I GRADE 9 • WORLD HISTORY II • WORLD HISTORY III GRADE 10 • U.S. HISTORY I • HONORS U.S. HISTORY I GRADE 11 • U.S. HISTORY II • DE / HONORS U.S. HISTORY II GRADE 12 • GOVERNMENT / ECONOMICS	GRADE 7 • LIFE SCIENCE GRADE 8 • PHYSICAL SCIENCE GRADE 9 • BIOLOGY I • BIOLOGY I HONORS GRADE 10 - 12 • HUMAN ANATOMY • PHYSICAL SCIENCE • HONORS CHEMISTRY I • HUMAN ANATOMY AND PHYSIOLOGY • HONORS CHEMISTRY II • HONORS ORGANIC CHEMISTRY • AP PHYSICS - MECHANICS • AP BIOLOGY • FORENSIC SCIENCE <small>*See Prerequisites & Diploma Requirements</small>	GRADE 7 • MATH 7 • PREALGEBRA 7 GRADE 8 • PREALGEBRA • ALGEBRA I GRADE 9 • ALGEBRA I • GEOMETRY • HONORS GEOMETRY GRADE 10 • GEOMETRY • HONORS GEOMETRY • ALGEBRA II • HONORS ALGEBRA II GRADE 11 • ALGEBRA II • HONORS ALGEBRA II • HONORS / DS PRECALCULUS GRADE 12 • ALGEBRA WITH FINANCE • HONORS / DS PRECALCULUS • HONORS ALGEBRA II WITH STATISTICS • HONORS / AP / DS PRECALCULUS <small>*See Prerequisites & Diploma Requirements</small>

MADISON ACADEMY

BIBLE COURSES

BIBLE & SPIRITUAL FORMATION

- Grade 7 - 12
Bible
- Grade 10 -12
Special Topics Bible
- Grade 10-11
Foundations of Spiritual Formation
- Grade 11-12
Student Spiritual Formation Team
- Grade 12 Girls
Grade 12 Boys
Senior Bible



BIBLE

***A Bible course listed below must be taken each year while in grades 7-12.

Level: Grades 7-9

Students will walk through the Bible from Genesis to Revelation focusing on how major themes and stories of the Bible relate directly to them. These age-specific Bible classes seek to meet our students' spiritual needs, to provide a solid foundation of Biblical knowledge, and to train our students in character, wisdom, morality, citizenship, and service to others.

Prerequisite: None

Credit: 1 Unit each year for grade 9

Level: Grades 10-11

Students will apply the Bible truths to real life situations during in-depth studies including a book study with Not a Fan, examining the life of Christ, an Old Testament Overview, and the Dark Room Faith curriculum.

This course alternates curriculums every other year.

Prerequisite: None

Credit: 1 Unit each year for grades 10-11

Level: Grade 12

Students will take everything they have learned during their tenure at Madison Academy and apply in a Biblical worldview capacity. Students will study the fruits of the spirit, conflict, Biblical dating, finances and other topics that prepare them for postsecondary studies or the workforce.

Prerequisite: None
Credit: 1 Unit

SPECIAL TOPICS BIBLE

Level: Grades 10-11

This class fills the need for a more advanced, comprehensive study of the Bible and of a few special topics. A four-year curriculum rotation provides students with a breadth and depth of Biblical instruction, presented in chronological order, in both the Old and New Testament.

Prerequisite: None, but previous Bible teacher recommendations are required

Credit: 1 Unit per year

FOUNDATION OF SPIRITUAL FORMATION

Level: Grades 10-11

Students will apply to be a part of this course. This course will be intentional in preparing students for the Student Spiritual Formation Team, but more importantly, preparing them for a life of ministry. While following some of the same content that our current 10/11 Bible classes are following, the content in the course will be presented in a way that students will learn to teach and use the material to minister to others. The course will also provide opportunities to make sure students have a comprehensive knowledge of the Bible that will help them in teaching others. Students will practice Biblical exegesis, public speaking, and planning for ministry opportunities.

Prerequisite: Instructor Approval - Invitation from Spiritual Formation Leader - Application required and interview

Credit: 1 Unit

STUDENT SPIRITUAL FORMATION TEAM

Level: Grades 11-12

The Student Spiritual Formation Team is a mix-gendered elective class open to Juniors and Seniors. The class will plan and lead the Gatherings (HS, MS, ES) for the entire school year, engage in outreach and service opportunities on and off campus, and learn practical lessons on discipleship. Students signing up for this class will be expected to have made a commitment to be a follower of Jesus, to have the capacity to work in a team setting, and to lead publicly after coaching from the instructor. This course serves as the Bible credit for juniors and seniors.

Prerequisite: Instructor Approval

Recommendation: Completion of Foundation of Spiritual Formation course

Credit: 1 Unit

ENGLISH COURSES

ENGLISH

- **Grade 7**
English 7
- **Grade 8**
English 8
- **Grade 9**
English 9 OR Honors English 9
- **Grade 10**
English 10 OR English 10 Honors
- **Grade 11**
English 11 OR Honors English 11 OR
AP Language OR Dual Enrollment
English (EN111/EN112)
- **Grade 12**
English 12 OR AP Literature OR
Dual Enrollment/Honors English
(EN111/EN112 OR EN211/212)



See school website for Summer Reading requirements for all English courses.

ENGLISH 7

Level: Grade 7

This course encompasses year-long, formal grammar study, exploration of fiction and non-fiction literature, and instruction in writing in a variety of modes for a variety of purposes. Students will be introduced to MLA formatting and documentation. Reading comprehension and critical thinking skills are developed through analysis of short stories, poems, and novels. Students will also complete weekly vocabulary throughout the year with a focus on Latin prefixes and root words.

Prerequisite: English 6

ENGLISH 8

Level: Grade 8

This course has the goal of making student writing and verbal communication clear, concise, correct, and effective. Emphasis is placed on transitioning students from middle school to the more demanding high school English curriculum. Grammar covered in 7th grade is reviewed, then concentration is on sentence improvement and the development of writing at the paragraph level. A 30-week word study matures student vocabulary. Synthesis essays with an emphasis on history teach students, through comparison and contrast, to think outside their own worlds into the past, present, and future. Students work on improving critical thinking by studying short works of fiction and non-fiction, novels, and poetry.

Prerequisites: English 7

ENGLISH 9

Level: Grade 9

NCAA Approved Course

Advanced Diploma Approved Course

English 9 is a developmental composition and literature course that focuses on critical thinking and introduction to the analysis of literature. Improving vocabulary skills, grammar, mechanics, and usage are stressed in all areas of writing. Critical thinking skills are cultivated in the analysis of the novel *To Kill a Mockingbird*; the drama *Romeo and Juliet*; short stories; and poetry. Writing skills are emphasized through strategies that include writing expository essays, weekly journal responses, personal narratives, and literary analysis.

Prerequisite: English 8

Credit: 1 Unit (required; substitute includes Honors English 9)

HONORS ENGLISH 9

Level: Grade 9

NCAA Approved Course

Advanced Diploma Approved Course

Honors English 9 is a fast-paced literature and composition course for highly motivated students in which they explore a multicultural survey of literature and language. Reading selections will be drawn from fiction, nonfiction, plays, and poetry. Students will discuss historical and social themes and their relevance to today's world, analyze literary devices used by authors, and think critically as they interpret and analyze works of literature. Students will write frequently for varying purposes, including literary analysis and synthesis of information. In addition to the reading and writing, students will review and practice grammatical concepts to add strength and clarity to writing. A year-long vocabulary study will help students to develop a broader command of language. Features such as timed writings, cumulative vocabulary, poetry responses, class discussions, presentations, in-depth writing assignments, and at-home reading assignments will prepare students who plan to take a Dual Enrollment course as a junior and/or senior.

Eligibility Requirements for Honors English 9 Honors English 9 is designed to prepare students for the rigors of Dual Enrollment English. However, admission into Honors English 9 does not guarantee admission into Honors 10, nor does completion of Honors English 9 and Honors 10 classes guarantee admission into Dual Enrollment English.

*Enrollment is allowed for any student wishing to attempt the rigors of Honors English 9. However, an 80% average must be maintained each quarter in order to remain in the class. Otherwise, the student may be moved to English 9.

Credit: 1 Unit (fulfills English 9 requirement)

ENGLISH 10

Level: Grade 10

NCAA Approved Course

Advanced Diploma Approved Course**

****Please see guidelines for Advanced Diploma on page 11**

English 10 is a basic composition and literature course that focuses on critical thinking, research skills, and an introduction to the analysis of world literature. Emphasis is placed upon the development of critical thinking and writing skills through reading and writing expository essays as well as the fundamentals of research and documentation. Required writing includes frequent, short expository essays and one research paper. Emphasis is also placed on building vocabulary skills by improving dictionary and thesaurus skills and teaching the concept of “owning a word.” Grammar, mechanics, and usage are stressed in all areas of writing with a focus on editing skills. Critical thinking skills are cultivated in the analysis of novels, short stories, drama, essays, and poetry. Extensive ACT preparation will also be taught.

Prerequisite: English 9 or Honors English 9

Credit: 1 Unit (required; substitute is Honors English 10)

HONORS ENGLISH 10

Level: Grade 10

NCAA Approved Course

Advanced Diploma Approved Course

This honors level course will concentrate on world literature and will specifically encourage growth in analytical and research-based writing. The objective of this course is to create thinkers who can effectively write and speak in the English language for a variety of purposes and situations and demonstrate the ability to comprehend and evaluate complex information in selected novels, poetry, plays, and short stories. Literature will be examined through historical, philosophical, cultural, psychological, ethical, and literary perspectives. Extensive ACT preparation will also be taught.

Prerequisite: English 9 or Honors English 9

Eligibility Requirements for Honors English 10 Honors English 10 is designed to prepare students for the rigors of Dual Enrollment English. However, admission into Honors English 10 does not guarantee admission into Dual Enrollment English.

1. Maintained an 85% average in English 9 or an 80% average each quarter in Honors English 9.
2. Standardized test scores indicate success in Honors.
3. Two English teacher recommendations: most recent English teacher must be one.
4. High attendance record.
5. Quality timed-writing sample (if requested by the department)

Credit: 1 Unit (fulfills English 10 requirement)

ENGLISH 11

Level: Grade 11

NCAA Approved Course

Advanced Diploma Approved Course**

****Please see guidelines for Advanced Diploma on page 11**

This course teaches the major modes of English discourse and a survey of American literature.

Students also review the standards in grammar, usage, and rhetorical devices that are necessary for effective writing and for success on standardized tests such as the ACT. Vocabulary study is offered

that expands students' working vocabulary, improves their reading comprehension and standardized test scores, and enhances their ability to write successful papers.

Prerequisite: English 10 or Honors English 10

Credit: 1 Unit (required; substitutes include Honors English 11, DE English 101/102, or AP English 11)

HONORS ENGLISH 11

Level: Grade 11

NCAA Approved Course

Advanced Diploma Approved Course

This honors level course will concentrate on a survey of American literature and will specifically encourage growth in analytical and research-based writing. The objective of this course is to create thinkers who can effectively write and speak in the English language for a variety of purposes and situations and demonstrate the ability to comprehend and evaluate complex information in selected novels, poetry, plays, and short stories. Literature will be examined through historical, philosophical, cultural, psychological, ethical, and literary perspectives. Students will be well prepared to enroll in either Dual Enrollment English or AP Literature their Senior year.

See website for Summer Reading Requirement

Eligibility Requirements for Honors English 11

Honors English 11 is designed to prepare students for the rigors of Dual Enrollment English 101/102. However, admission into Honors English 11 does not guarantee admission into Dual Enrollment English.

Requirements for consideration for Honors English 11

1. Maintained an 85% average in English 10 or an 80% average each quarter in Honors English 10.
2. Standardized test scores indicate success in Honors.
3. Two English teacher recommendations: most recent English teacher must be one.
4. High attendance record.
5. Quality timed-writing sample (if requested by the department)

Prerequisite: English 10 or Honors English 10

Credit: 1 Unit (fulfills English 11 requirement)

AP LANGUAGE & COMPOSITION

Level: Grade 11

NCAA Approved Course

Advanced Diploma Approved Course

This course is designed to be the equivalent to an introductory composition course in college and to meet the curricular requirements listed by the College Board. To become skilled readers, students will learn to closely read a variety of texts that range across the disciplines of the sciences as well as the arts. The purpose of the readings will be to examine the writer's subject, audience, and purpose; to analyze how the writer's style and rhetorical strategies achieve that purpose; and to assimilate a variety of texts on the same subjects so that students learn to read discriminately and to make informed judgments about the rhetorical effectiveness of each text. To become skilled writers, students will write in both informal and formal contexts in all of the major modes of discourse. In addition, students will complete a year-long research project on a major essayist or nonfiction writer that will progress in complexity and culminate in the synthesis and presentation of a variety of

sources, both printed and visual. Requirement: Must take AP Language exam. Approximate cost is \$91.

Prerequisites: Pre-AP English 10

Requirements for consideration for AP Language

1. Maintained an 80% average each quarter in Pre-AP English 10.
2. Standardized test scores indicate success in AP Language.
3. Two English teacher recommendations: most recent English teacher must be one.
4. High attendance record.
5. Quality timed-writing sample (if requested by the department)

Requirement: Must take AP Language exam. Approximate cost is \$91.

***Starting during the 2022-2023 school year, a minimum score of 18 on ACT English portion will be required for enrollment in AP Language.**

If a student meets the requirements for admission into AP Language but does not maintain at least a B-average each quarter, he or she may be transferred into English 11 or Honors English 11.

Credit: 1 Unit (fulfills English 11 requirement; provides opportunity to earn college credit depending upon college acceptance of AP scores)

ENGLISH 12

Level: Grade 12

NCAA Approved Course

Advanced Diploma Approved Course

This course is designed to prepare students for the rigor and scope of college-level reading and writing assignments. A survey of British literature, English 12 focuses on poems, short stories, essays, plays, and novels of major British authors. In conjunction with these readings, students will write for various purposes; students will move from basic levels of interpretation and writing to analysis and synthesis of information. Through frequent and challenging writing, students will gain a greater command of the English language as they learn to respond to and analyze literature, continuing to build style and voice. During this course, students will engage in research at varying levels and must satisfactorily complete a research paper for graduation. Other features of this course are a year-long vocabulary study and a review of grammatical concepts.

Prerequisite: English 11, Honors English 11, or AP Language

Credit: 1 Unit (required; substitutes include English 12 DE/Honors English 101/102, DE/Honors English 211/212 or AP English 12)

ENGLISH 11/12: DUAL ENROLLMENT/HONORS COMPOSITION EN 111/EN 112

Level: Grade 11/12

NCAA Approved Course

Advanced Diploma Approved Course

EN 111. First-Year Composition I - An introduction to expository writing, rhetoric, and reading. The acquisition of the basic skills in standard English is stressed.

EN 112. First Year Composition II - A continuation of training in expository writing and reading, stressing the acquisition of higher-level skills in standard English and the introduction to the basic tools and processes of academic research.

Note: Students must earn a 70 average for each semester to receive college credit for the class.

Requirements: For Dual Enrollment, UNA requires a minimum of an 18 on the English portion of the ACT. The approximate cost of UNA tuition is \$99 per semester with course fees of approximately \$60. Juniors must qualify based on ACT score. 11th graders enrolled in this course must opt for the dual enrollment credit.

Prerequisites: English 10, Honors English 10, English 11, Honors English 11 or AP English 11
To be considered for acceptance in Dual Enrollment Composition 111/112, a student must meet the following criteria:

1. Maintained an 85% average in English 10/11 or an 80% average in Honors English 10/11 or AP Language.
2. Recommendation from the Sophomore/Junior English teacher

Credit: 1 Unit (satisfies English 11 or 12 requirement for high school; provides college credit depending upon college acceptance of transfer credits)

AP ENGLISH 12 AP ENGLISH LITERATURE & COMPOSITION

Level: Grade 12

NCAA Approved Course

Advanced Diploma Approved Course

AP Literature is designed to be a rigorous course, equivalent to an introductory literature course in college. Through the close reading of literary texts, specifically novels and poetry, students will ultimately understand how writers purposefully use language to engage and answer the big questions in life. Through careful explication of literature, students will see how each piece “measures up” and fits in--in its time period and in all time. Literary analysis will involve looking through the lenses of style and structure, rhetorical strategies, diction, figurative language, imagery, detail, development, tone, and syntax. Through frequent and challenging writing, students will gain a greater command of the English language as they learn to respond to, interpret, and analyze literature. Also important to this course are vocabulary study and literary terms. AP Literature is designed for highly motivated students who wish to enhance themselves academically by taking an accelerated curriculum.

Eligibility Requirements for AP Language and/or AP Literature/Dual Enrollment

AP Language and AP Literature/Dual Enrollment are college-level courses that are extremely rigorous and require both student commitment to the heavy workload and student ability, which is measured by success in Pre-AP and standardized test scores such as the PSAT, PLAN or ACT.

If a student meets the requirements for admission into AP English but does not maintain at least a B-average each quarter, he or she may be transferred into English 11 or English 12.

Requirements for consideration for AP Literature 1. Maintained an 80% average in AP Language each quarter 2. Standardized test scores indicate success in AP Literature. 3. Two English teacher recommendations: most recent English teacher must be one

4. High attendance record
5. Timed-writing sample (if requested by the department)

Requirement: Must take AP Literature exam. Approximate cost is \$91.

See website for Summer Reading Requirement

Prerequisite: AP Language

Credit: 1 Unit (fulfills English 12 requirement for high school; provides opportunity to earn college credit depending upon college acceptance of AP scores).

**ENGLISH 12: DUAL ENROLLMENT/HONORS
SURVEY OF BRITISH LITERATURE EN 211/EN 212**

Level: Grade 12

NCAA Approved Course

Advanced Diploma Approved Course

Dual Enrollment ENG 211/212 The first semester of this class will examine the development of British literature as an expression of British culture from Beowulf through Neoclassicism. The second semester will be a continuation of English 211 from the Pre-Romantics to the present.

Note: Students must earn a 70 average for each semester to receive college credit for the class.

Additional Requirements: For Dual Enrollment, UNA requires a minimum of an 18 on the English portion of the ACT. The approximate cost of UNA tuition is \$99 per semester with course fees of approximately \$60.

Prerequisites: Dual Enrollment English 111/112

To be considered for acceptance in Dual Enrollment Composition 211/212, a student must meet the following criteria:

1. Maintained an 70% average in Dual Enrollment English 111/112.
2. An 18 or higher on the English portion of the ACT
3. Recommendation from the Junior English teacher

Credit: 1 Unit (satisfies English 12 requirement for high school; provides college credit depending upon college acceptance of transfer credits)

MATH COURSES

MATH

- **Grade 7**
Math 7 OR Pre-Algebra 7
- **Grade 8**
Pre-Algebra OR Algebra I 8th Grade
- **Grade 9**
Algebra I
Geometry
Honors Geometry
- **Grade 10**
Geometry
Honors Geometry
Algebra II
Honors Algebra II
- **Grade 11**
Algebra II
Algebra II Honors
Elementary Algebra/Finite Math
Honors/Dual Enrollment PreCalculus
- **Grade 12**
Algebra with Finance
Honors/Dual Enrollment PreCalculus
Dual Enrollment Intermediate College
Algebra/Finite Math
Honors/AP/Dual Enrollment Calculus



MATH 7

Level: Grade 7

Math 7 focuses on developing a deeper understanding of core mathematical concepts and their real-world applications. Students will explore rational numbers, ratios, proportions, and percentages, while building proficiency in algebraic expressions, equations, and inequalities. Geometry topics include scale drawings, area, surface area, volume, and angle relationships. In statistics and probability, students will analyze data, calculate measures of central tendency, and understand probability concepts. The course also introduces foundational ideas in functions and linear relationships, fostering critical thinking and problem-solving skills to prepare students for advanced math coursework.

Prerequisite: Successful completion of Grade 6 Math

PRE-ALGEBRA 7

Level: Grade 7

PreAlgebra 7 is designed to give students a firm foundation in mathematical concepts needed to prepare them for Algebra I. This study includes basic operations of integers and rational numbers. It also includes simplifying, evaluating, solving and graphing equations and inequalities. Other topics include rates, ratios, proportions, percents and data analysis . It also introduces functions, exponents, square roots and scientific notation. The geometry section includes identifying geometric shapes and using the different geometric formulas. At the Honors Level, the distance formula, special right

triangles, dilations, indirect measurement, circle graphs, graphing systems of equations, linear and nonlinear functions are all introduced.

Recommendation: A student making less than 80 will not meet the prerequisite for 8th Grade Algebra. Students will take Pre-Algebra in the 8th grade.

Prerequisite: Placement will be based on students' current Math 6 grades, aptitude test scores, achievement test scores, and standardized test scores.

PRE-ALGEBRA

Level: Grades 8-9

PreAlgebra is designed to give students a firm foundation in mathematical concepts needed to prepare them for Algebra I. This study includes basic operations of integers and rational numbers. It also includes simplifying, evaluating, solving and graphing equations and inequalities. Other topics include rates, ratios, proportions, percents and data analysis. It also introduces functions, exponents, square roots and scientific notation. The geometry section includes identifying geometric shapes and using the different geometric formulas.

Prerequisites: Math 7

Credit: 1 Unit (if taken to fulfill 9th grade math requirement)

Note: An 8th grader who finishes PreAlgebra with a D or F for the year may be required to take PreAlgebra as a 9th grader for a credit. Students who do not successfully complete this course with a C or higher do not show mastery of foundational math skills.

ALGEBRA (8th)

Level: Grade 8

In this course students increase their awareness of the number system, learn foundations of Algebra and Geometry, and investigate patterns of association. Algebra foundations include integer exponents, proportional and nonproportional relationships, solving linear equations and systems, and using functions to model relationships. Geometry foundations include understanding congruence and similarity, analyzing angle relationships, understanding and applying the Pythagorean Theorem, and solving real world mathematical problems involving volume.

Honors Algebra I is a rigorous course that will challenge students' thinking and organization of information.

Recommendation: Each student must maintain an overall average of 85 to proceed to Honors Geometry. Otherwise, the student will proceed to regular Geometry. An 8th grade student making less than 75 may be required to repeat Algebra I in the 9th grade.

Prerequisite: Completion of Honors PreAlgebra 7 with an overall average of 80 and teacher recommendation.

Credit: No Credit awarded for Algebra 1 taken in 8th grade

ALGEBRA I

Level: Grades 9-10

NCAA Approved Course

Advanced Diploma Approved Course

Algebra I is designed to give students the requisite skills that provide a foundation for all future mathematics courses. Students will study algebraic foundations, polynomials, probability, exponents, data analysis, rational expressions and radical expressions. The students will learn to write, solve, and

graph linear equations and inequalities, quadratic equations, systems of equations and inequalities, and absolute-value equations and inequalities. Throughout the course, mathematical concepts will be taught with an emphasis on real-world application.

Prerequisites: Pre-Algebra

Credit: 1 Unit (required)

GEOMETRY

Level: Grades 10-11

NCAA Approved Course

Advanced Diploma Approved Course

Geometry emphasizes understanding and applying the principles of shapes, space, and their relationships. Students will explore concepts such as congruence, similarity, and transformations, as well as geometric proofs involving angles, lines, and triangles. The course covers properties and theorems related to polygons, circles, and three-dimensional figures, including calculations of perimeter, area, surface area, and volume. Students will also study coordinate geometry, trigonometric ratios, and real-world problem-solving applications, developing logical reasoning and spatial visualization skills essential for advanced mathematics.

Recommendation: Each student must maintain an overall average of 75 to proceed to Algebra II/Trig. Otherwise, the student will proceed to Algebra II.

Prerequisites: Algebra I

Credit: 1 Unit (required)

HONORS GEOMETRY

Level: Grades 9-10

NCAA Approved Course

Advanced Diploma Approved Course

In the content area of Geometry and Measurement, students build on and deepen prior understanding of transformations, congruence, similarity, and coordinate geometry concepts. Informal explorations of transformations provide a foundation for more formal considerations of congruence and similarity, including development of criteria for triangle congruence and similarity. An emphasis on reasoning and proof throughout the content area promotes exploration, conjecture testing, and informal and formal justification.

Students perform algebraic calculations with specific application to geometry that build on foundations of algebra. In the Data Analysis, Statistics, and Probability content area, students build from earlier experiences in analyzing data and creating linear models to focus on univariate quantitative data on the real number line (shape, center, and variability) and bivariate quantitative data on a coordinate plane (creating linear models).

Recommendation: Each student must maintain an overall average of 75 to proceed to Algebra II/Trig. Otherwise, the student will proceed to Algebra II.

Prerequisite: Completion of Honors Algebra I with a minimum grade of 85 or completion of Algebra I with a minimum grade of 90, and teacher recommendation.

Credit: 1 unit

ALGEBRA II

Level: Grades 10-12

NCAA Approved Course

Advanced Diploma Approved Course

Algebra II contains a more in-depth study of concepts presented in Algebra I while introducing several higher level concepts. Topics covered include: linear equations, polynomials, systems of equations and inequalities, complex numbers, exponential functions, logarithmic functions, quadratic equations, matrices, radical equations, nonlinear equations and inequalities, and function graphing. Trigonometric topics include: right triangle ratios, solving general triangles using the Law of Sines and Law of Cosines, area of oblique triangles, solving trigonometric equations, graphing, and verifying identities.

Recommendation: A student who wishes to take Algebra II and Geometry concurrently must have an “A” semester average in all previous math courses.

Prerequisite: Completion of Algebra I and Geometry with a minimum overall average of 75 and teacher recommendation.

Credit: 1 unit (Algebra II or Algebra II/Trigonometry is required for graduation. Students may not receive credit for both courses.)

HONORS ALGEBRA II

Level: Grades 10-12

NCAA Approved Course

Advanced Diploma Approved Course

Honors Algebra II is an advanced Algebra II course which contains a more in-depth study of concepts presented in Algebra I while introducing several higher level concepts. Honors students will be required to derive formulas and develop more complex critical thinking skills and problem solving. Algebra topics covered include the following: linear equations, polynomials, systems of equations and inequalities, complex numbers, exponential functions, logarithmic functions, quadratic equations, using matrices to solve linear systems, radical equations, nonlinear equations and inequalities, and function graphing. Direct variation, inverse functions, and composition of functions will also be studied. This course also includes conic sections, sequences/series, and probability/statistics. Trigonometric topics include: right triangle ratios, solving general triangles using the Law of Sines and Law of Cosines, area of oblique triangles, solving trigonometric equations, graphing, and verifying identities.

Recommendation: A student who wishes to take Algebra II and Geometry concurrently must have an “A” semester average in all previous math courses.

Prerequisite: Completion of Algebra I and Geometry with a minimum overall average of 90 and teacher recommendation OR completion of Honors Geometry with a minimum overall average of 80.

Credit: 1 unit

**INTERMEDIATE COLLEGE ALGEBRA (DE MTH100) /
FINITE MATHEMATICS (DE MTH110)
Math 100 and 110 are offered through Calhoun**

Level: Grades 11-12

NCAA Approval Pending (12/20)

Advanced Diploma Approved Course

Intermediate College Algebra provides a study of algebraic concepts such as laws of exponents, polynomial operations, factoring polynomials, radical and rational expressions and equations, and quadratic equations. Functions and relations are introduced and graphed. This course does not apply toward the general core requirement for mathematics. Finite Mathematics provides an overview of topics in finite mathematics together with their applications and is intended for students who are not majoring in science, engineering, commerce, or mathematics (i.e., students who are not required to take calculus. The course introduces logic, set theory, counting techniques, basic probability, statistics, and personal finance. *This course qualifies for the dual enrollment GPA boost.*

Requirement for DE MTH 100/110: Minimum of 18 ACT Math score and completion of Algebra II or Algebra II Honors.

Prerequisite: For Finite Math completion of Intermediate College Algebra is required

Note: Students may complete this course before MTH112/MTH113 but NOT after.

Credit: 1

**HONORS PRECALCULUS: DE MATH 112/113
Math 112 and Math 113 are offered through Calhoun**

Level: Grades 11-12

NCAA Approved Course

Advanced Diploma Approved Course

Honors PreCalculus includes advanced algebra, trigonometry, and pre-calculus concepts. The advanced algebra topics include matrices and determinants, polynomial functions and graphs, inverse functions, and probability. The trigonometric topics include trigonometric functions, identities, and formulas; circular functions and inverses; polar coordinates; and graphing trigonometric functions. PreCalculus topics include vector operations, conics, logarithmic functions, exponential functions, and sequences and series.

Requirement: graphing calculator (See teacher for Model #).

Requirement for DE MTH 112: Minimum of 20 ACT Math score and completion of Algebra II.

Requirement for DE MTH 113: Minimum of 20 ACT Math score and completion of Algebra II or completion of DE MTH 112.

Prerequisite: Algebra I, Geometry and Algebra II/Trig with a minimum grade of 90 or completion of Algebra II/Trig Honors and teacher recommendation.

Note: Students may not take a lower level math course upon completion of MTH112/MTH113.

Credit: 1 unit

HONORS AP/DE CALCULUS: DE MATH 125 (second semester)
Math 125 is offered through Calhoun

Level: Grade 12

NCAA Approved Course

Advanced Diploma Approved Course

Students may choose one of 3 options when taking Calculus.

Honors Calculus: covers the concepts listed below.

AP: This course is intended for students to earn Advanced Placement credit by taking the AP Calculus AB exam. The topics covered include functions and transformations, limits and continuity, derivatives and applications, integrals and applications, differential equations and mathematical modeling. Emphasis will be placed on the problems associated with the AP exam.

DE: This course will cover precalculus concepts as a review as well as calculus concepts required for a Calculus I college course credit. Topics covered include the limit of a function; the derivative of algebraic, trigonometric, exponential and logarithmic functions; and the definite integral and its basic applications to area problems. Applications of the derivative are covered in detail, including approximations of error using differentials, maximum and minimum problems and curve sketching using calculus.

Requirement: graphing calculator (TI-84 Plus is preferred).

Requirement for DE MTH 125: Minimum of 20 ACT Math score and completion of Precalculus or completion of DE MTH 113.

Prerequisite: PreCalculus with a minimum grade of 80 and teacher recommendation.

Credit: 1 Unit (provides opportunity to earn college credit depending upon college acceptance of AP scores)

ALGEBRA WITH FINANCE

Level: Grade 12

NCAA Approved Course

Algebra with Finance is a one-credit college and career preparatory course that integrates algebra, probability and statistics, and geometry to solve financial problems that occur in everyday life.

Real-world problems in investing, credit, banking, auto insurance, mortgages, employment, income taxes, budgeting and planning for retirement are solved by applying the relevant mathematics that are taught at a higher level.


Prerequisites: Algebra I, Geometry, and Algebra II

Credit: 1 Unit

SCIENCE COURSES

SCIENCE

- **Grade 7**
Life Science
- **Grade 8**
Physical Science
- **Grade 9**
Biology I
Biology I Honors
- **Grade 10-12**
Human Anatomy and Physiology
Physical Science
Honors Chemistry I
Human Anatomy and Physiology
Honors Chemistry II
Honors Organic Chemistry
AP Physics - Mechanics
AP Biology
Environmental Science
**See Prerequisites & Diploma Requirements



SCIENCE 7

Level: Grade 7

The Science 7 course provides unit studies in the areas of biology and chemistry. Topics covered include cells and heredity, the Animal Kingdom, and human biology and health. Also included is a week-long field study at Dauphin Island Sea Lab.

Requirements: No class fee. Dauphin Island field study trip is an additional cost.

Prerequisite: Science 6

SCIENCE 8

Level: Grade 8

The Science 8 course provides unit studies in the areas of chemistry and physics. Topics covered include chemical interactions, motion, forces, energy, electricity, and magnetism.

Requirements: No fee, but students are asked to furnish certain items for some lab activities.

Prerequisite: Science 7

BIOLOGY I

Level: Grade 9

NCAA Approved Course

Advanced Diploma Approved Course

Biology I introduces students to key biological concepts. Topics covered include basic chemistry, biochemistry, cell structure, homeostasis, photosynthesis, cell reproduction, cellular respiration,

fundamentals of genetics, bacteria, viruses, protozoa, algae, fungi, plants, and the interdependence of living organisms. Laboratory work provides practical applications of the concepts taught.

Prerequisite: Grade 8 Science

Credit: 1 Unit (required)

BIOLOGY I HONORS

Level: Grade 9

NCAA Approved Course

Advanced Diploma Approved Course

Biology I introduces students to key biological concepts. Topics covered include basic chemistry, biochemistry, cell structure, homeostasis, photosynthesis, cell reproduction, cellular respiration, fundamentals of genetics, bacteria, viruses, protozoa, algae, fungi, plants, and the interdependence of living organisms. Laboratory work provides practical applications of the concepts taught.

Prerequisite: Grade 8 Science

Credit: 1 Unit (required)

Requirements for consideration for Honors Biology I

Students must have an 85 average in English and 85 average in 8th grade science and either an 8th grade science or English teacher recommendation.

PHYSICAL SCIENCE

Level: Grade 10-12

NCAA Approved Course

Physical Science introduces students to important concepts in chemistry and physics. Chemistry, which is covered during the first semester, provides an overview of matter and various changes it undergoes. Physics topics covered during the second semester include motion, energy, waves, and electricity. Activities that introduce laboratory techniques are an integral part of this course.

Note: Credit previously earned in Chemistry or Physics prohibits credit in this course.

Prerequisite: Biology I

Credit: 1 Unit

HUMAN ANATOMY AND PHYSIOLOGY

Level: Grades 10-12

NCAA Approved Course

Advanced Diploma Approved Course

Human Anatomy and Physiology is an advanced life science study of the structure and function of the major body systems. Emphasis is placed on tissue classification, organ structure and function, biological processes required by properly functioning systems, and major disorders that can occur in each system. Lab work includes the dissection of a mammal and selected mammalian organs.

Prerequisite: Biology I (an average of 75 for each semester in Biology I) and teacher approval

Credit: 1 unit (also fulfills Health requirement)

HONORS CHEMISTRY I

Level: Grades 10-12

NCAA Approved Course

Advanced Diploma Approved Course

The study of Chemistry provides a key understanding of the composition, properties, and changes of matter. Topics that are covered in this college preparatory course include atomic structure, periodic law, chemical bonding, naming compounds, writing chemical formulas, reaction stoichiometry, gas laws, solutions, acids and bases. Emphasis is placed on learning techniques for making laboratory investigations, critical thinking, and problem-solving.

Note: Credit in regular chemistry disqualifies a student from Honors Chemistry I.

Requirement: Calculator

Prerequisite: Algebra II/Trig (previously or concurrently being taken) and teacher approval.

Credit: 1 unit

HONORS CHEMISTRY II (INORGANIC)

Level: Grade 11-12

NCAA Approved Course

Advanced Diploma Approved Course

This course is designed for the science or engineering major who is expected to have a strong background in mathematics. Topics in this course include measurements, nomenclature, stoichiometry, atomic structure, equations and reactions, basic concepts of thermochemistry, chemical and physical properties, bonding, molecular structure, gas laws, kinetic-molecular theory, condensed matter, solutions, colloids, chemical kinetics, chemical equilibria, acids and bases, ionic equilibria of weak electrolytes, solubility product principle, chemical thermodynamics, electrochemistry, oxidation-reduction, nuclear chemistry, atmospheric chemistry, and selected topics in descriptive chemistry.

Requirement: Calculator and laboratory time

Prerequisite: Honors Chemistry I (B average both semesters) and teacher approval

Credit: 1 unit

HONORS ORGANIC CHEMISTRY

Level: Grade 11-12

NCAA Approved Course

Advanced Diploma Approved Course

This course is designed for the student pursuing a college major in science, chemical engineering, or pre-med (such as medicine, dentistry, pharmacy, physical therapy, or veterinary medicine). Students will receive a strong foundation in Organic Chemistry, which will prepare them for work in the challenging course at the college level. Topics in this course include an in-depth study of the structure, function, and uses of alkanes, alkenes, alkynes, aromatic hydrocarbons, alcohols, phenols, aldehydes, ketones, carboxylic acids, esters, amides, amines, carbohydrates, lipids, and proteins. Nomenclature, isomerism, molecular formulas, chirality, chemical and physical properties, chemical bonding, reaction synthesis, and reaction mechanisms will also be emphasized.

Requirement: Calculator and laboratory time

Prerequisite: Honors Chemistry I (B average both semesters) and teacher approval

Credit: 1 unit

AP PHYSICS C: Mechanics

Level: Grades 11-12

NCAA Approved Course

Advanced Diploma Approved Course

AP Physics C: Mechanics is a one-semester that is taught across a full year. This course is a college-level physics course, especially appropriate for students planning to specialize or major in one of the physical sciences (medicine) or engineering. Students cultivate their understanding of physics through classroom study and activities as well as hands-on laboratory work as they explore concepts like change, force interactions, fields, and conservation.

Requirement: Graphing Calculator

Prerequisite: Honors PreCalculus and teacher approval.

Corequisite: AP Calculus

Credit: 1 Unit

AP BIOLOGY

Level: Grades 11-12

NCAA Approved Course

Advanced Diploma Approved Course

The AP Biology course is designed to enable you to develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. The key concepts and related content that define the revised AP Biology course and exam are organized around a few underlying principles called the big ideas, which encompass the core scientific principles, theories and processes governing living organisms and biological systems.

Requirement: Must take AP Biology exam. Approximate cost is \$91.

Prerequisite: Biology (an average of 90 each semester) and Honors Chemistry I (an average of 85 for each semester). Teacher approval is required.

Credit: 1 Unit (provides opportunity to earn college credit depending upon college acceptance of AP scores)

ENVIRONMENTAL SCIENCE

Offered 2025-2026 School Year

Level: Grades 11-12

NCAA Approved Course

Environmental Science is a lab-based science course based on the Earth and human activity. Topics covered in this course include natural resources, natural hazards, human impact on Earth systems, and global climate change. This course incorporates the scientific and engineering practices reflecting the scientific processes used in science, technology, engineering, and mathematics (STEM) fields. The Environmental Science content standards provide a depth of conceptual understanding to adequately prepare students for college, career, and citizenship with an appropriate level of scientific literacy. This course will be offered every other year, alternating with Forensic Science.

Prerequisite: Biology I and a physical science (physical science or chemistry)

Credit: 1 Unit

FORENSIC SCIENCE
Not Offered 2025-2026 School Year

Level: Grades 11-12

NCAA Approved Course

Forensic Science is designed to explore the science of crime-scene analysis with real-life application of Biology, Chemistry, and Physics. The course will include a focus on solving high-level problems, crime-scene management, fingerprint collection and analysis, forensic anthropology, forensic odontology, forensic pathology, and blood splatter analysis.

This course will be offered every other year, alternating with Environmental Science.

Prerequisite: Biology I and a physical science (physical science or chemistry)

Credit: 1 Unit

SOCIAL SCIENCE (HISTORY) COURSES

SOCIAL SCIENCE (HISTORY)

- **Grade 7**
Social Studies 7
- **Grade 8**
World History I:
Beginning of the Civilization 1500
- **Grade 9**
World History II: 1500- Present or
Honors World History II: 1500-
Present
- **Grade 10**
U.S. History I or
Honors U.S. History I
Early American - WWI
- **Grade 11**
U.S. History II or
DE/Honors U.S. History II
- **Grade 12**
Government/Economics



SOCIAL STUDIES 7

Level: Grade 7

Students study world geography using a thematic approach. They focus on Earth as the subject matter that involves people, places, and environments and learn that geography seeks meaning in spatial patterns and processes that involve asking questions regarding where and why. The teacher will select particular continents, countries, and regions to provide the geographic framework for classroom instruction and investigation.

The civics content is embedded through the course and addresses content regarding democracy, liberty, law, personal economics, and local, state, and national civic responsibility. This course provides students with information about how society works, including the role students play in the community and in the world.

Prerequisite: Social Science 6

WORLD HISTORY I

Level: Grade 8

The study of world history in Grade 8 addresses the time period from prehistoric man to the 1500s. Content standards for this grade incorporate the strands of economics, geography, history, and political science, with an emphasis on the history and geography strands. Course content focuses on the migrations of early people, the rise of civilizations, the establishment of governments and religions, the growth of economic systems, and how these events shaped Europe, Asia, Africa, and the

Americas. Unique to this course are experiences that provide for the study of how human beings view themselves over time.

Prerequisite: Social Science 7

WORLD HISTORY II: 1500-PRESENT

Level: Grade 9

NCAA Approved Course

Advanced Diploma Approved Course

The course directs students to think critically about the forces that combined to shape the world today. It allows them to analyze development and changes in the European, Asian, African, and American civilizations in ways in which interactions of these cultures have influenced the formation of today's world. Knowledge of other cultures enables students to develop a better appreciation for the unique American heritage of liberty. Geographic concepts increase learners' comprehension of global connections as they expand their knowledge and understanding of a wide variety of cultures, both historical and contemporary.

Prerequisite: Social Science 8.

Credit: 1 Unit (required)

HONORS WORLD HISTORY II: 1500 - PRESENT

Level: Grade 9

NCAA Approved Course

Advanced Diploma Approved Course

This course provides a comprehensive survey of major world civilizations from Asia, Europe, Africa, and the Americas. Content will begin with the Renaissance and continue through modern times. Classroom focus will be placed on in-depth analysis of key historical events, historical figures, and historical themes across different regions and time periods. These will include economic, social, political, and cultural developments. Student focus will be placed on using historical thinking skills of causation, comparison, and change and continuity across time. Student engagement will consist of primary and secondary source analysis, complex thinking, and extensive writing, including reading outside of class. This course will build the skills of students in order to be successful in Honors US History I (grade 10).

Prerequisite: World History I

Eligibility Requirements for Honors World History II: 90% average in World History I and an 85% average in English 8

Credit: 1 Unit (required)

US HISTORY I: EARLY AMERICA TO WWI

Level: Grade 10

NCAA Approved Course

The study of the early history of the United States in Grade 10 forms the foundation for understanding the development and principles of modern American society. Beginning with the earliest explorations of American continents, this course offers a chronological study of major events, issues, movements, individuals, and diverse groups of people in the United States from a national and an Alabama perspective. In addition to gaining essential knowledge regarding this period of our nation's past,

students develop historical-thinking skills, which include chronological thinking, historical comprehension, historical analysis and interpretation, historical research, and analysis and decision making.

Prerequisite: Social Science 9.

Credit: 1 Unit (required)

HONORS US HISTORY I: EARLY AMERICA TO WWI

Level: Grade 10

NCAA Approved Course

Advanced Diploma Approved Course

The study of the early history of the United States in Grade 10 forms the foundation for understanding the development and principles of modern American society. Beginning with the earliest explorations of American continents, this course offers a chronological study of major events, issues, movements, individuals, and diverse groups of people in the United States from a national and an Alabama perspective. In addition to gaining essential knowledge regarding this period of our nation's past, students develop historical-thinking skills, which include chronological thinking, historical comprehension, historical analysis and interpretation, historical research, and analysis and decision making. Students will work on critical thinking and writing skills through the use of primary and secondary sources, historical analysis, outside reading, and research. Classroom focus will be placed on advanced analysis of key historical events, important figures in US history, and making connections across time and place. Students will engage in exploring historical thinking skills such as comparison, causation, and change and continuity across time. Students will gain insight into America's development as a country and how we fit into the global picture.

Prerequisite: **Regular or Honors World History 9 (see below for grade requirements)**

Eligibility Requirements for Honors US History I

* Honors US History I will prepare students for Dual Enrollment US History II in the 11th grade.*

1. Maintained an 85% average in **Honors** English 9 or a 90% average in **Regular** English 9.
2. 85% or higher in **Honors** World History II **or a 90% average in Regular World History I**

Credit: 1 Unit (required)

US HISTORY II: WWI-PRESENT

Level: Grade 11

NCAA Approved Course

This course builds upon the foundation of knowledge and skills gained in Grade 10 by providing a study of the modern history of the United States that expands students' understanding of the principles of American society. Beginning with America's shift to a more industrialized society, this course offers a chronological study through the twenty-first century of major events, issues, movements, individuals, and diverse groups of people in the United States from a national and an Alabama perspective.

Prerequisite: Social Science 10

Credit: 1 unit (required)

HONORS/DE U.S. HISTORY II

Level: Grade 11

NCAA Approved Course

Advanced Diploma Approved Course

This course is two semesters of college level history. The college credit is serviced through Faulkner University. The description of each semester is as follows:

HY1301 Survey of United States History to 1877 (Offered 1st semester)

A college level study of the development of the U.S. from the colonial period to the Civil War. This course will receive 3 hours of college credit from Faulkner University with the completion of the course with a C average or higher along with satisfying Madison Academy's requirements.

HY1302 Survey of United States History from 1877 to Present (Offered 2nd semester)

A study of the development of modern America from the Civil War to the present. This course will receive 3 hours of college credit from Faulkner University with the completion of the course with a C average or higher along with satisfying Madison Academy's requirements. (Prerequisite completion of HY1301)

Requirements: a minimum GPA of 3.0 OR a 22 or higher composite score on the ACT (or equivalent placement score) Honors US History 10 with a grade of 80

Prerequisite: Social Science 10

Credit: 1 unit

U.S. GOVERNMENT/ECONOMICS

Level: Grade 12

NCAA Approved Course

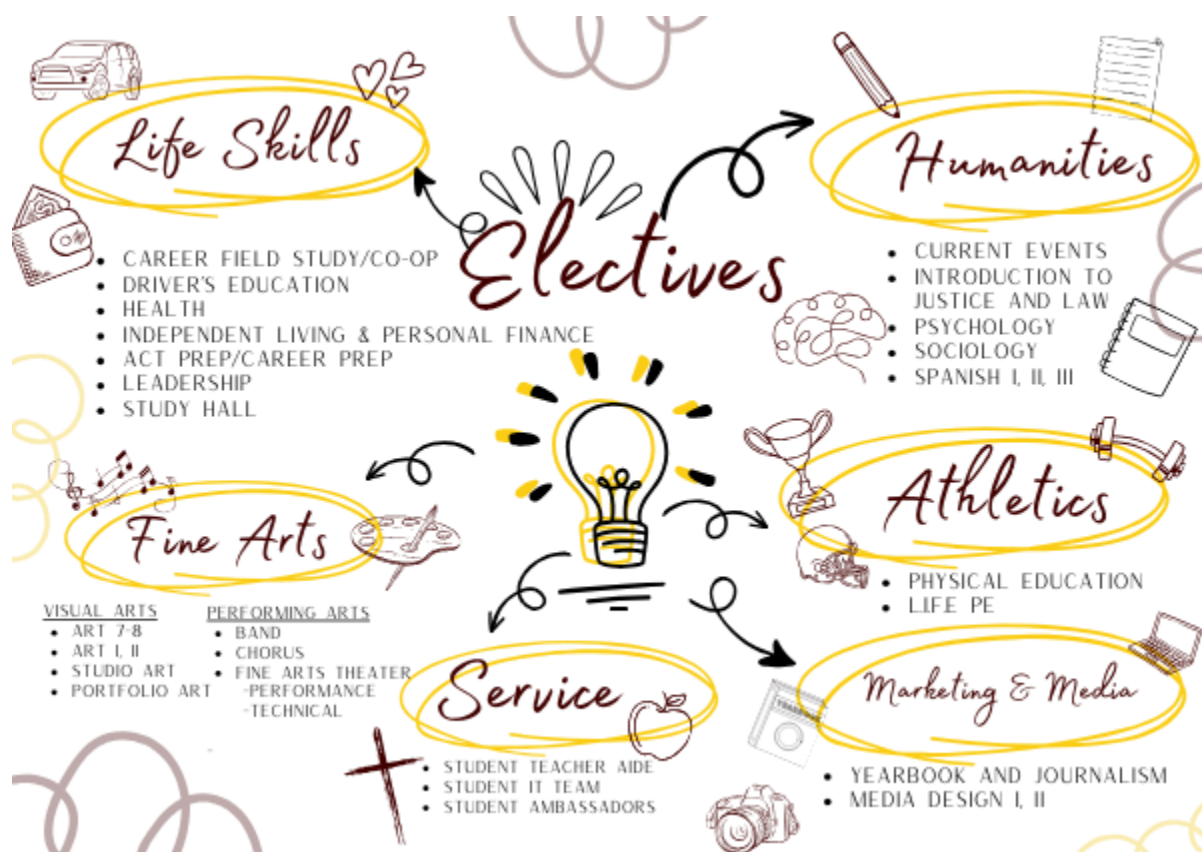
Advanced Diploma Approved Course

In this course students gain an understanding of the workings of government at all levels and an appreciation of what it means to be a United States citizen. Major topics covered include representative democracy, branches of government, federalism, and civic responsibilities. Students are also provided with a broad knowledge of the U.S. economic system. The stock market, banking system, individual budgets, and many areas that are beneficial in analyzing current economic issues are covered.

Prerequisite: Social Science 11

Credit: 1 Unit (required)

ELECTIVES



FINE ARTS - VISUAL ARTS

FINE ARTS: VISUAL ARTS

- Art 7-8
- Art I - Drawing
- Art II - Painting and Mixed Media
- Studio Art
- Portfolio Art



ART 7-8

Level: Grades 7-8

Middle School Art

Middle School Art will be a review and refinement of experiences of Middle School Art 6. Students will explore elements and principles of visual arts through the understanding and application of various media, techniques and processes. Using hands-on activities students will increase their potential to think creatively, solve problems and communicate ideas, feelings and experiences in two and three-dimensional works involving both fine and applied forms. Students will study perspective, concentrating on size, overlapping, composition and balance. Drawing will continue to be emphasized with attention being focused on light and shading. Students will experience and study visual images from various cultures, and discuss the characteristics of these images as they pertain to their own works and the works of others. Students will identify similar vocabulary and concepts among the art disciplines.

Prerequisite: None

Credit: None

ART I- Drawing

Level: Grades 9-12

Units of instruction in this course include drawing, shading and the use of different types of pencils, graphite and erasers. There will be a strong emphasis on the Elements of Art and how to incorporate the elements in pieces of art. A wide variety of instructional materials and approaches are applied to specific problems within each unit. Emphasis is placed on the development of the individual's skill and expression enhancing the potential to provide the world with creative, innovative thinking.

Prerequisite: None

Credit: 1 Unit

ART II-Painting and Mixed Media

Level: Grades 10-12

This course focuses on the further development of the foundational skills. Awareness concepts are enriched in concentrated units of study in painting, technique, applied color theory through the use of different types of mediums within the first semester of this course. This course will also explore mixed media techniques through the use of diverse materials during the second semester. Continued emphasis is placed on visual thinking skills and evaluative processes.

Prerequisite: Art I

Credit: 1 Unit

STUDIO ART

Level: Grades 11-12

Advanced units of study are pursued according to specific individual interests. The units are based on past experiences and the development of personal skills and awareness with in-depth exploration stressing higher quality of work in all media. Students demonstrating a high level of performance and self-motivation are provided with the opportunity to plan their own course of study specifying materials, techniques, subject matter with minimum guidance from the instructor.

Prerequisites: Art I, Art II, and Portfolio requirement - 3 pieces of art that includes a one paragraph critique (template provided) for each piece. A two paragraph explanation of what the student intends to accomplish in Studio Art.

Credit: 1 Unit

PORTFOLIO ART

Level: Grade 12

This is an advanced course for the serious-minded art student. Students will develop a portfolio of expressive works that demonstrate quality, concentration, and breadth of personal expression in one or more of the following areas: Drawing, Painting, and Mixed Media. Career options and colleges are discussed as part of the course.

Prerequisite: Art I and Art II, Portfolio requirement - 3 pieces of art that includes a one paragraph critique (template provided) for each piece. A two paragraph explanation of what the student intends to accomplish in Portfolio.

Credit: 1 Unit

FINE ARTS - PERFORMING ARTS

FINE ARTS: PERFORMING ARTS

- **Theater:**
Middle School Theater
High School Theater Performance
High School Technical Theater
Event Production and Design
- **Band:**
Band 7-8
Marching Band/Concert
- **Chorus:**
Middle School
High School



The courses listed below require performances in front of a live audience and may require before and/or after school rehearsals and performances. They also require additional costs such as uniforms/costumes, field trip expenses, etc.

BAND 7-8

Level: Grade 7-8

Band is a **performance-based** class where students experience music through learning to play an instrument. Students will be exposed to a variety of music, musical concepts, music theory, and performance etiquette. This class includes a concert band component with a minimum of two public performances, and the possibility of an additional performance at the Alabama Bandmasters Association Music Performance Assessment. Additional concert band performance opportunities include the ABA Solo & Ensemble contest and possible regional or national performance opportunities. Marching band is not required but all commitments are final.

Requirements: Participation in the Winter Concert, Spring Concert, and any state or regional assessments.

Prerequisites: None

MARCHING/CONCERT BAND

Level: Grades 8-12

Band is a **performance-based** class where students experience music through learning to play an instrument. Students will be exposed to a variety of music, musical concepts, music theory, and performance etiquette. This class includes a concert band component with a minimum of two public performances, and the possibility of an additional performance at the Alabama Bandmasters

Association Music Performance Assessment. Additional concert band performance opportunities include the ABA Solo & Ensemble contest and possible regional or national performance opportunities.

Note: Participation in one semester of Marching Band fulfills 1/2 credit of the P.E. graduation requirement for grades 9-12.

Requirements: Participation in the Winter Concert, Spring Concert, and any state or regional assessments.

Prerequisites: None

Credit: 1 Unit for grades 9-12, No credit for grade 8

CHORUS 7-8

Level: Grades 7-8

Middle School Chorus is a performance-based class where students can explore the art of singing. Students will sing a variety of music, develop vocal techniques for singing, and learn various musical concepts including music theory and appropriate performance etiquette. A concert schedule and participation in various assessments and festivals sponsored by the Alabama Vocal Association requires a time commitment that is in addition to the time spent in class. An evening concert is performed in winter and spring to provide a showcase of talent. Students are especially encouraged (but not required) to audition for the Alabama All-State Chorus and various honor choirs. Anyone can be in choir as long as they are willing to give singing a try. We can teach you to sing! Our goal as a group is to develop into better singers, to make music, and to have fun doing it! NO Auditions Required.

Requirements: Participation in the Winter Concert and Spring Concert. Purchase of formal choir attire.

Prerequisite: None

CHORUS 9-12

Level: Grades 9-12

High School Choir is a performance-based class where students can explore the art of singing. Students will sing a variety of music, develop vocal techniques for singing, and learn various musical concepts including music theory and appropriate performance etiquette. A concert schedule and participation in various assessments and festivals sponsored by the Alabama Vocal Association requires a time commitment that is in addition to the time spent in class. An evening concert is performed in winter and spring to provide a showcase of talent. Students are especially encouraged (but not required) to audition for the Alabama All-State Chorus. Students will also have to purchase choir formal attire. Anyone can be in choir as long as they are willing to give singing a try. We can teach you to sing! Our goal as a group is to develop into better singers, to make music, and to have fun doing it! NO Auditions Required.

Requirements: Participation in the Winter Concert, Spring Concert, and any state or regional assessments. Purchase of formal choir attire.

Prerequisite: None

Credit: 1 Unit

MIDDLE SCHOOL THEATRE

Level: Grades 7-8

During this **performance based** course, students will be introduced to theater history and appreciation, improvisation, theater tech (such as lights, sound, costumes, makeup, sets, and props), and an understanding of various acting techniques. Theatre offers the chance to experience the excitement and rewards of theatre arts while developing problem-solving skills, collaboration and social skills, and confidence. Students will get an opportunity to perform in the fall and spring class plays, and run tech for shows and our biweekly Gatherings. No auditions required.

HIGH SCHOOL THEATRE PERFORMANCE

Level: Grades 9-12

This is a **performance-based course** and is designed to develop and strengthen skills in ensemble work, movement, vocal articulation and projection, play analysis, and scene work, with an emphasis on character development. Students will gain confidence in improvisation, audition skills, and preparation for theatrical college/career paths. Students will also have the option to participate in Technical Theatre positions (lights, sound, sets, makeup and costumes). Students are required to participate in select theatre festivals and/or competitions throughout the year.

Prerequisite: None

Credit: 1 Unit

HIGH SCHOOL TECHNICAL THEATRE

Level: Grades 9-12

In this course, students will dive into the world of theatre production, focusing on key elements such as costuming, makeup, set design, and overall production design. They will explore how to effectively advertise and promote shows, manage box office operations, and take on responsibilities in stage management. Students may be called upon during the school day or after school hours to assist with production events, offering practical, hands-on experience in real-world scenarios. Through these roles and production opportunities, students will develop creative problem-solving skills, attention to detail, and gain hands-on experience in areas essential to bringing a theatrical production to life. This focus not only builds a foundational knowledge of theatre's visual and operational components but also provides valuable experience that enhances leadership, organization, and teamwork abilities, setting students up for both performance and production careers in theater. Students are required to participate in select theatre festivals and/or competitions throughout the year.

Prerequisite: None

Credit: 1 Unit

EVENT PRODUCTION AND DESIGN

Level: Grades 9-12

This course prepares students to support school events through audio-visual production, technical production, sound and lighting, and digital media. Students will gain experience in event technology and design for a variety of gatherings, from chapels and pep rallies to games and assemblies. They will learn to coordinate technology and create engaging environments, mastering the use of production equipment and digital media to enhance school events. Students may be called upon during the school day or after school hours to assist with these events, offering practical, hands-on

experience in real-world scenarios. By managing technical and production aspects, students develop detailed, technical skills that are directly transferable to future educational and professional opportunities in event production and technology.

Prerequisite: None

Credit: 1 Unit



ELECTIVES

- **Marketing and Media**
 - Yearbook and Journalism
 - Media Design I
 - Media Design II
 - Broadcasting/Marketing
- **Life Skills**
 - Career Field Study/Co-Op
 - Driver's Education
 - Health
 - Independent Living/ Personal Finance
 - Study Hall
 - ACT Prep / Career Prep
 - Leadership
- **Humanities**
 - Current Events
 - Sociology
 - Psychology
 - Spanish I - III
 - Introduction to Justice and Law
- **Athletics**
 - Physical Education
 - L.I.F.E. PE
- **Service**
 - IT Tech Team
 - Student Ambassador
 - Teacher Aide

MARKETING AND MEDIA

MEDIA DESIGN I

Level: Grades 10-12

This course is designed to introduce students to the principles of graphic design through the use of multimedia and social media applications. The application of these tools will teach students marketing strategies to promote Madison Academy.

Requirements: Student attendance at school events to document the life of MA.

Instructional areas will include: career opportunities, decision making, media protocol, digital citizenship, social media promotions, computer graphics creation, and branding.

Credit: 1 Unit (elective)

MEDIA DESIGN II BROADCASTING/MARKETING

Level: Grades 11-12

Students will be responsible to write, produce, and edit the MA Way, a weekly upper school production. Students will use skills from Media Design I to create graphics, edit images, and produce

the show. They will provide content from school wide events to contribute to the story of MA in collaboration with the marketing director and admissions.

Requirements: Student attendance at school events to document the life of MA.

Prerequisite: Media Design I

Credit: 1 Unit (elective)

YEARBOOK and JOURNALISM

Level: Grades 9-12

The Yearbook and Journalism class produces a journalistic yearbook (*The Oracle*) for the school that serves as a memory, history record, and reference book. Students learn concept design, writing, and photography with the latest technology. Students will also be exposed to a variety of print and digital journalism. Growth in personal responsibility and creativity is also emphasized. Proficiency in English and interest in learning eDesign required.

Prerequisite: Instructor approval

Credit: 1 Unit

ATHLETIC ELECTIVES

PHYSICAL EDUCATION

Level: Grades 7-8

This course begins the development of the more advanced movements and skills that are cornerstones of physical development. Students will learn strong technical skills in a wide variety of movements including, but not limited to, bracing, bending, pushing, pulling, lifting, twisting, throwing, jumping, landing, running. This course is required for grades 7-8.

Requirement: Exercise clothing (Athletic shoes, pants/shorts, and shirt)

Prerequisite: None

L.I.F.E. PE

Level: Grades 9-12

Lifelong Individualized Fitness Education, or LIFE, provides balanced instruction in fitness and conditioning for cardiovascular health, muscular tone and strength, flexibility, and agility. Students will begin strength training to increase their ability to produce, absorb, stabilize, and redirect force. Students will also be challenged to increase their endurance in both aerobic and anaerobic conditioning. This course is based on principles of strength and conditioning with a holistic approach to physical development. This class takes a “slow-cook” approach to create lasting physical adaptations that promote lifelong health and wellness. The course is offered to both girls and boys separately.

Requirement: Exercise clothing (Athletic shoes, pants/shorts, and shirt)

Prerequisite: None

Credit: 1 unit (Fulfills one credit of PE required for graduation)

HUMANITIES

SPANISH I

Level: Grades 9-12

NCAA Approved Course

Advanced Diploma Approved Course

This course provides an introduction to the Spanish language and Hispanic culture. Students learn the basic skills of reading, writing, listening, and speaking. The acquisition of vocabulary is emphasized.

Prerequisite: An overall B average is recommended, especially in English.

Credit: 1 Unit

SPANISH II

LEVEL: GRADES 10-12

NCAA Approved Course

Advanced Diploma Approved Course

Spanish II is a continuation of concepts introduced in Spanish I. Students build on vocabulary and learn more advanced grammar. Emphasis is placed on reading, speaking, writing, and listening comprehension.

Prerequisite: Spanish I (an average of 75 or above in Spanish I is recommended)

Credit: 1 Unit (Spanish I/II satisfy an Advanced Academic Diploma requirement)

SPANISH III

Level: Grades 11-12

NCAA Approved Course

Advanced Diploma Approved Course

Spanish III continues to move students from a comprehension level to a more fluent use of the Spanish language. This course consists of speaking, reading, and writing Spanish using various video series and related textbooks. Students will be eligible to participate in the CLEP exam earning up to 6 hours of college credit pending their individual score.

Prerequisites: Spanish I and II

Credit: 1 Unit

CURRENT EVENTS

Level: Grades 10-12

This course is designed to provide students with the opportunity to discuss, understand, and explore local, national, international, political, economic and social issues in a respectful, meaningful, and active way. Throughout the year, students will stay up to date on current issues and trends. Because the subject of this class is “contemporary,” topics will vary considerably depending on the current news cycle. Students will be challenged to defend their opinions on many different issues. The class will consist of research, lecture, group work, reading, and writing assignments. This class could provide great help for any History class! We will be looking at a variety of viewpoints and topics, but add a Biblical perspective to what is going on in the world around us.

Prerequisite: None

Credit: 1 Unit (elective)

PSYCHOLOGY

Level: Grades 10-12

NCAA Approved Course

In this course students will explore various facets of human behavior. Topics will focus on biological, environmental, and social factors that influence personality, intelligence, learning, perceptions, emotions and motivation.

Credit: 1 Unit (elective)

SOCIOLOGY

Level: Grades 10-12

NCAA Approved Course

Sociology (with Ethics): Sociology will be a study of society and culture. The class will examine and study multiple cultures and determine what creates a culture and its characteristics. The ultimate goal of this course is to show students what other lives are like outside of their own culture AND to understand why their own cultures developed as they did. Also, students will examine traditional beliefs about specific cultures to be able to better evaluate their own culture and beliefs. Ethics will introduce the principles of logic, including inductive and deductive methods of reasoning, and will raise students' awareness of fallacies concerning both secular and religious current issues. Students will examine the world in which they live and develop ethical positions based on sound evidence. Various systems of conduct that oppose ethical behavior will be evaluated in an effort to understand the need to employ ethical standards in all facets of our civic life: family, school, business, and government.

Prerequisite: None

Credit: 1 unit (elective)

INTRODUCTION TO LAW AND JUSTICE

Level: Grades 10-12

NCAA Approved Course

This class is good for anyone interested in a law or business major/career. The year long class will work from a book, *A Course in Practical Law*. We will introduce the legal system and will study criminal law, liability, consumer law, family law, and the rights and liberties. Case studies will provide practical application. A field trip to a courtroom and guest speakers from the field are part of the curriculum.

Credit: 1 Unit (elective)

LIFE SKILLS

DRIVER'S EDUCATION

Level: Grades 9-10

Driver's Education is a one-semester program consisting of classroom instruction and behind-the-wheel training offered to all eligible students. MA Driver's Education is designed to prepare our students for a lifelong skill that greatly enhances their quality of life. The goal of MA Driver's Education is to provide each student driver the psychomotor skills and mental attitudes

required to become the most competent, skillful, responsible driver possible. The program is offered each semester at MA upper school campus. To be eligible to enroll, a student must meet the following requirements:

- Turn 15 years old by the end of the first month of the semester enrolled and also obtain a Learner's Permit by the end of the first quarter of the semester enrolled
- Not had Driver's Education before.
- Agree to comply with the MA Code of Conduct.

A proficiency test may be offered to students who are at least 16 years of age or who have transferred from another state and possess a valid level one graduated driver license (GDL). If, for any reason, the instructor deems the student unsafe or intentionally disrespectful, the student will be removed from the program immediately. If a student is removed from the program for disciplinary reasons or withdraws from the class, the student must make arrangements to complete training through a commercially-licensed school at his/her own expense.

Prerequisite: None

Credit: 1/2 Unit

HEALTH

Level: Grades 9-10

This one-semester course encompasses a variety of issues that are relevant to maintaining health and wellness in the contemporary world. Topics include nutrition, stress, exercise, substance abuse, home safety, CPR, first aid, personal management, and disease prevention. This course is paired with Driver's Ed.

Prerequisite: None

Credit: 1/2 Unit (fulfills health requirement for students electing not to take Human Physiology; does not fulfill a credit requirement in science)

LEADERSHIP

Level: Grades 10-12

This course is designed to build leaders by addressing specific objectives: understanding and working with different leadership styles, problem-solving, collaborating, developing healthy habits, and learning the skill of positive reinforcement. The curriculum combines images, relatable stories, and experiences that resonate with today's young adults, equipping them to navigate through life's challenges and opportunities.

Prerequisite: None

Credit: 1 Unit

STUDY HALL

Level: Grades 10-12

This non-credit course is designed for students to complete class work, better prepare for exams, and receive extra assistance from the teacher in areas where it is needed. Students are expected to be on task during this class. Students will work to organized and remain in good academic standing in their classes.

Prerequisite: None

Credit: No Credit

CAREER PREP B / ACT PREP

Level: Grades 10-12

ACT PREP: This course is designed to prepare students for acceptance into college and for success in their future academic and professional careers. For one semester, students will work to score adequately on their ACT test and/or to raise their ACT score to a higher level. With renewed emphasis at the local, state, and national levels to improve test scores, ACT Prep is a course that was created to improve those scores. The students receive intensive instruction in English, Math, Reading, and Science. Work will be done mostly using written material from a variety of publishers that produce ACT Prep practice books. Test-taking strategies will be taught and emphasis will also be placed on time management during the ACT test.

CAREER PREP B: This one semester course is designed to prepare students for college admissions, scholarship essays, college planning and preparing personal resumes. Students will explore career fields and academic pathways to better prepare them for career choices. In addition, students will learn financial literacy, including principles of budgeting for financial independence.

Prerequisites: None (Each student is encouraged to have taken the ACT at least once prior to enrolling in this class.)

Credit: 1 Unit (elective)

INDEPENDENT LIVING/PERSONAL FINANCE

Level: Grades 11-12

Independent Living is a one-semester course that focuses on the basic skills that students will need after high school. Topics include the following: managing finances and daily living responsibilities, appropriate job skills, apartment shopping, online safety, personal safety, basic cooking and menu planning, and survival skills. **Personal finance** is a one-semester course designed to help students understand income, money management, spending and credit, as well as saving and investing. In addition it will prepare students to think about their own finances and real world financial dilemmas.

Prerequisite: None

Credit: 1/2 Unit Per Semester (elective)

CO-OPERATIVE EDUCATION/CAREER FIELD STUDY

Level: Grade 12

Our Work-Based Learning Program combines traditional academics with practical, work-based knowledge gained outside the classroom. Students graduate from Madison Academy with a transcript and a resume that demonstrates their valuable academic and employment skills to colleges and future employers. Students may choose from two options:

In the **Career Field Study** Program, students are able to participate in internships where the goal is for the student to learn about careers they are interested in pursuing. Students are not paid while participating in the Career Field Study Program. Students must intern 60 hours per semester and will receive 0.5 credit per semester. Students must be in good academic standing with an excellent attendance record.

In the **Cooperative Education** Program, students are allowed to work outside of school for financial gain. Students must maintain continuous employment throughout the semester that they participate in this program. No credit is awarded for the Co-Op Program.

Note: Each course may be taken for two semesters or may be paired with one semester of Student Aide.

Prerequisite: None, but students cannot be in a sport in the same semester as the class.

Credit: 1/2 Unit per semester for Career Field Study. No credit for Co-Op.

SERVICE ELECTIVES

STUDENT AMBASSADOR

Level: Grades 9-12

The position of Student Ambassador will be awarded to students who best exhibit the qualities of the well-rounded student: spiritually- and academically-grounded, diligent, articulate, enthusiastic, personable, and highly-involved in student activities such as athletics, clubs, and service organizations. Student Ambassadors will be trained in the art of public relations; will serve as tour guides for prospective students; and will represent MA at various school and community events. Students who want to be considered for this position must submit an application and schedule an interview.

Requirement: Students must have an overall GPA of 3.5.

Prerequisite: Administrator Approval

Credit: 1 Unit

STUDENT TEACHER AIDE

Level: Grade 12

Student Aide provides opportunities for a limited number of qualified students to gain hands-on experience in assisting the professional staff with clerical and managerial tasks.

Requirement: Student maturity and dependability

Prerequisite: Administrator approval

Credit: 1 Unit

STUDENT IT TEAM

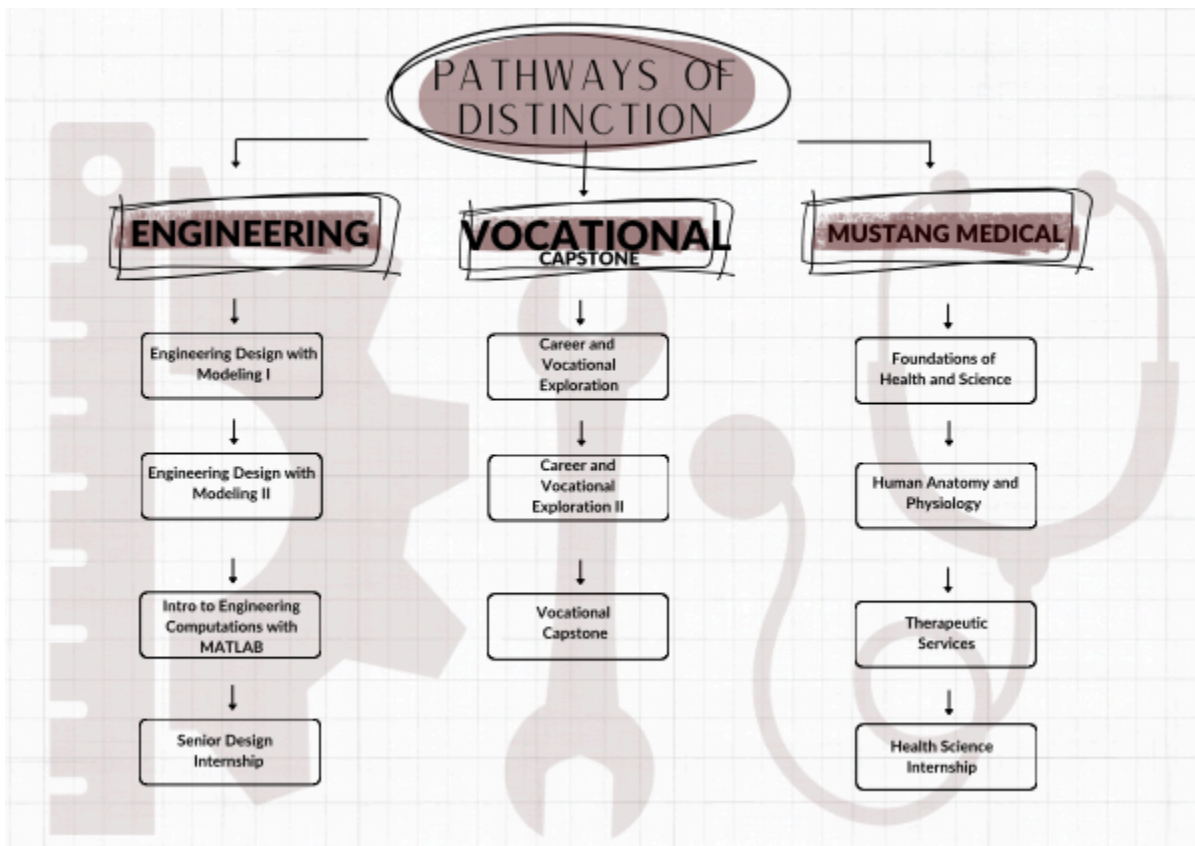
Level: Grades 10-12

The Student IT Team is a select group of students assigned to assist in the IT Office. Student duties will include: Device Repair, Classroom Technology Troubleshooting, General IT Support. Students will receive quarterly grades based on work performance, participation, attitude, and attendance.

Prerequisite: Student Application, Interview with IT Staff, and Administrative Approval

Credit: 1 Unit per year

PATHWAYS OF DISTINCTION



MUSTANG MEDICAL

MUSTANG MEDICAL **see requirements*

- Foundations of Health Science
- Fundamentals of Sports Medicine
- Therapeutic Services
- Human Anatomy and Physiology
(Required Science)
- Health Science Internship



FOUNDATIONS OF HEALTH SCIENCE

Level: Grades 9-11

Foundations of Health Science is a one credit course that introduces students to the basic concepts needed to pursue a career in healthcare. This is the first class along the Health Science Pathway and will focus on building the foundation required to be successful in subsequent coursework. The course will combine academics with hands-on skills to reinforce learning in a simulated workplace. **This course is required to apply for the Health Science Internship.**

Prerequisite/Corequisite: None

Credit: 1 Unit (elective, does not fulfill a credit requirement in science)

FUNDAMENTALS OF SPORTS MEDICINE

Level: Grades 10-11

In this course, students will learn about several different medical fields, including sports medicine, general medicine, orthopedics, ophthalmology, dermatology, physical therapy, nutrition, podiatry, and dentistry. Students will also learn how to prevent athletic injuries and illnesses from occurring, as well as, how to provide first aid and medical care to a wide variety of athletic illnesses and injuries.

This course is required to apply for the Sports Medicine Internship.

Prerequisite: Biology 1

Credit: 1 Unit (elective, does not fulfill a credit requirement in science)

THERAPEUTIC SERVICES

Level: Grade 11

Therapeutic Services is a one credit course that reinforces the working knowledge learned in previous pathway courses and introduces students to the concept of patient assessment and treatment commonly found in medical practice. The course will expand on simulated workplace learning to prepare students to actively participate in various clinical settings during their senior year.

Prerequisite/Corequisite: Foundations of Health Science, Human Anatomy & Physiology

Credit: 1 Unit (elective, does not fulfill a credit requirement in science)

HEALTH SCIENCE INTERNSHIP

Level: Grade 12

Health Science Internship is a double-block course that builds upon the knowledge acquired in previous pathway courses to provide students with the opportunity to intern at various clinical sites throughout the community. The experiences gained through this course will help students to prepare for postsecondary health care educational programs. The curriculum focuses on material to prepare for the certified clinical medical assistant exam, which students take prior to graduation. This allows them to obtain credentials prior to graduating high school. The approval to enroll in the course may be authorized by the administration.

Requirements: Costs required with this course (liability insurance, scrubs, BLS certification, CCMA, etc.). Additionally students are required to have a flu shot and TB skin test.

Prerequisites: Foundations of Health Science and Human Anatomy and Physiology

Recommended: Therapeutic Services and Honors Chemistry

Credit: 2 Units (elective, does not fulfill a credit requirement in science)

‘EDEN’ ENGINEERING

EDEN ENGINEERING

Not following the recommended math and science track does not exclude students from taking engineering electives. It is recommended to discuss preparedness for these electives with previous teachers and teachers of engineering.



	Math*	Science*	Eden Electives
9th Grade	Geometry Honors	Biology Honors	Engineering Design with Modeling I
10th Grade	Algebra II Honors	Chemistry Honors	Engineering Design with Modeling II
11th Grade	Pre-Calculus	Physics AP	Intro to Engineering Computations with MATLAB
12th Grade	Calculus	Physics Dual Enrollment or Chemistry II	Senior Design / Dual Enrollment Engineering

ENGINEERING DESIGN W/SOLID MODELING I

Level: Grades 9-12

Three-dimensional modeling software has changed how quickly designers can move from idea to a functioning prototype. These software tools have also impacted the designer's ability to communicate ideas to others. Introduction to Solid Modeling & Engineering Design teaches students how to create 3D models of parts and mechanisms using SolidWorks, an industry-standard computer-aided design (CAD) program. Students will learn concepts that are commonly taught in the first year of a collegiate engineering curriculum.

Prerequisite: None

Credit: 1 Unit

ENGINEERING DESIGN W/SOLID MODELING II

Level: Grades 10-12

Engineering Design w/ Solid Modeling II builds on the concepts taught in its prerequisite course, Engineering Design w/ Solid Modeling I. This two-course sequence is designed to prepare students to take the Certified SolidWorks Associate – Academic Exam to earn the first level of certification in SolidWorks. Students will be required to apply what they learned in the first course as they study additional concepts that are also commonly taught in the first year of a collegiate engineering curriculum.

PreRequisite: Engineering Design w/ Solid Modeling I

Credit: 1 Unit

INTRODUCTION TO ENGINEERING COMPUTATIONS WITH MATLAB

Level: Grades 11-12

Every engineering discipline is being transformed by the ability to put computers anywhere and interconnect them (Internet of Things). Engineers must have at least a basic understanding of computer programming and the impact that computers have on design solutions. Introduction to Engineering Computations with MATLAB teaches computer programming with the same programming language used in colleges of engineering around the country. Students will learn fundamental programming logic and structures that are taught in the first year of a collegiate engineering curriculum.

Prerequisite: Instructor Approval

Credit: 1 Unit

SENIOR DESIGN/DUAL CREDIT

Level: Grade 12

Madison Academy's administration and engineering director will work with students who wish to further pursue engineering pedagogy and credit to enroll in a local university or college as a dual credit student. These requests will be handled on a case by case basis.

Corequisite: AP Physics C: Mechanics, AP Calculus

Credit: 1 Unit

VOCATIONAL CAPSTONE

VOCATIONAL CAPSTONE

- Career and Vocational Explorations I
- Career and Vocational Explorations II
- Vocational Capstone



CAREER AND VOCATIONAL EXPLORATIONS I

Level: Grades 10-12

This course is a hands-on exploration of students' career options. Through personal reflection, field experiences, and professional visits, students will gain an understanding of their likes and dislikes, strengths and weaknesses, career choices, and ways to achieve their goals. Professionals in fields such as medicine, law, law enforcement, military, and trade come in to explain the requirements to begin their careers and show students a real-life view of what they do daily. The class also visits job sites to see firsthand what these careers look like.

Prerequisite: None

Credit: 1 Unit

CAREER AND VOCATIONAL EXPLORATIONS II

Level: Grades 11-12

This course is a more in-depth analysis of a student's vocational abilities and desires. Students will undergo career assessments and work closely with postgraduate entities to determine a personal path to becoming a productive contributor within the community. Students will gain a wider knowledge of professions available in the greater Huntsville region. Completion of this course is recommended for entrance into the capstone program.

Prerequisite: Career and Vocational Explorations I

Credit: 1 Unit

VOCATIONAL CAPSTONE

Level: Grade 12

This program is designed to specifically meet the needs of students seeking certifications and licensures. Through partnerships with trade schools, organizations, and universities, students are given the opportunity to become licensed and/or certified in industry specific fields that will allow them to become eligible for employment upon graduation from Madison Academy. Courses taken under this program are not eligible for dual enrollment credit.

Prerequisite: Career and Vocational Explorations I and administrative approval

Pre/Corequisite: Career and Vocational Explorations II

Credit: No Credit

MIDDLE SCHOOL ENRICHMENT WHEEL & ELECTIVES

7th Grade Wheel - Subject to Change

Computer Technology (Fulfills section of Career Prep A) - Uses of software apps are explored in detail. Projects are completed using Pages (resumes, cover pages,etc.), Keynote and imovies. Digital Citizenship is a major component of this course focusing on etiquette, cyberbullying, plagiarism and safety. Topics include personal decision making, budgeting and personal interest inventory. Career opportunities are explored and employment processes and requirements are reviewed.

8th Grade Enrichment Wheel - Subject to Change

Writing/Research Strategies - In preparation for high school writing, students will be instructed in four different types of academic writing: example, compare/contrast, cause/effect, and persuasive. A focus on standard English grammar and mechanics, the process of writing, and basic research skills will be practiced and applied. Research skills will adhere to MLA format and be demonstrated in the persuasive essay.

Fine Arts Exploration - Students will be introduced to the different fine arts offerings provided by the school, including art, drama, chorus, and band. Each unit will focus on the different opportunities available and will practice applicable skills, and through a wide range of methods and experiences, students will be provided a foundation for future involvement in the arts.

Executive Functioning - Students will be introduced to the 12 executive functioning skills. Students will focus on each skill in a unit format in which they learn about the skill, practice the skill, and apply the skill into their daily lives. Executive functioning is a set of cognitive skills that help people plan, solve problems, and manage emotions.

Computer Science Principles - VEX Robotics allows for the learning content of this course to be hands-on and engaging. The classroom competition curriculum of VEX IQ brings all of that excitement into the classroom. Classroom competitions allow students to take ownership of their learning as they explore engineering, coding, competitions, and more. Students are challenged to work as a team and make decisions collaboratively, which is a fantastic skill that will serve them well as they leave the classroom and go to the workplace one day.

ART 7-8

Level: Grades 7-8

This course includes advanced visual art concepts intended to broaden the foundational skills gained by students in the elementary program. A major focus is to further develop the artistic and visual perceptions in painting, drawing, stenciling, collage, color theory, three-dimensional design, composition, and mixed media.

Prerequisite: None

BAND 7

Level: Grade 7

7th grade band is designed as a musical transition period for students who have participated in 6th grade band, and an accelerated opportunity for late beginners to improve their musical skills.

Requirements: Participation in the Winter Concert and Spring Concert.

Prerequisite: Musical experience and teacher approval required

MARCHING/CONCERT BAND

Level: Grades 8-12

8th-12th grade band begins with a focus on marching and pep tunes, and then transitions to concert literature that is performed at the Christmas and Spring concerts. Students work toward developing and maturing musicianship. Participation in marching band is not required.

Note: Participation in one semester of Marching Band fulfills 1/2 credit of the P.E. graduation requirement for grades 9-12.

Requirements: Participation at summer band camp, football games, contests, parades, district festivals, Winter Concert and Spring Concert

Prerequisites: Musical experience and teacher approval required

Credit: 1 Unit for grades 9-12, No credit for grade 8

CHORUS 7-8

Level: Grades 7-8

The Chorus is a mixed choir consisting of development of vocal ability and skill in performing a variety of pieces of music, including a cappella selections. A concert schedule and participation in various assessments and festivals sponsored by the Alabama Vocal Association requires a time commitment that is in addition to the time spent in class. An evening concert is performed in winter and spring to provide a showcase of talent. Students are especially encouraged (but not required) to audition for the Alabama All-State Chorus.

Requirements: Participation in the Winter Concert, Spring Concert, Christian High School Choral Festival, State Choral Performance Assessment.

Prerequisite: None

DRAMA 7-8

Level: Grades 7-8

During this **performance based** course, students will be introduced to theater history and appreciation, improvisation, theater tech (such as lights, sound, costumes, makeup, sets and props), and an understanding of various acting techniques. Drama offers the chance to experience the excitement and rewards of theater arts while developing problem-solving skills, collaboration and social skills, and confidence. Students will get an opportunity to perform in the fall and spring class plays, or run tech for shows and our biweekly Gatherings. No auditions required.

Prerequisite: None