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April 7, 2022

Hewitt-Trussville High School

2022-2023 Curriculum Guide and Course Descriptions

(Working Draft April 7, 2022)

School Mission

The mission of Hewitt-Trussville High School is to educate students using high standards in a safe, nurturing environment fostering academic and career competencies which prepare them to be productive citizens.

Hewitt Trussville High School

6450 Husky Parkway
Trussville, AL 35173

Telephone: (205) 228-4000
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Administrators
Tim Salem, Principal
Joy Young
Corey Hall
Dawn Kilgore
Barry Allphin

Counselors
Laura Stalls- 9th grade
Heather Winship- 10th grade
Melanie McGee- 11th grade
Amy Cane- 12th grade

Trussville City Schools

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Kathy Brown, President
Steve Ward, Vice-President
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Mark Sims
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NON-DISCRIMINATORY POLICY

The policy of the Board (Reference 1.04): The Trussville City Board of Education does not discriminate on the basis of race, color, national origin, sex, disability, religion, or age in its programs and activities, and provides equal access to the Boy Scouts and other designated youth groups.

OVERVIEW

It is very important that students and their parents give careful consideration to the courses that are selected each school year. The diploma type toward which the student is working should be considered, as well as the student's past academic record. Each spring, students are advised about courses and given the opportunity to work with a counselor to develop their individual course selections for the following school year.

The number of sections offered for a given course in the school year is determined by the course selections requested by students during the spring pre-registration period. Once the master schedule is developed, changes in course selections may not be possible. A sufficient number of students must select an elective course for it to be offered. A student who selects a course that is not offered will be scheduled into one of his/her alternate courses.

Counselors are available to answer questions about any of the courses that are listed in this document. They are easily accessible by email. If there are still questions, students/parents may make an appointment with the appropriate grade level counselor or request additional information by calling the HTHS Guidance Department at 228-4030.

COUNSELORS and Staff
HTHS Counseling Center: 228-4040

- Laura Stalls- Freshmen
- Heather Winship- Sophomores
- Melanie McGee- Juniors
- Amy Cane-Seniors
- Catrice Thomas - Career Coach
- Jada Majors - Guidance Department Secretary
- Beth Martin- Guidance Office Assistant
- Tammy Lee- Job Development Coach
- Lauren Cooley – Registrar

10th - 12th Grade

Course	Credits	Alabama High School Diploma	Advanced Diploma	Diploma w/Honors
English Language Arts	4	●English 9 ●English 10 ●English 11 ●English 12 *or any Adv/AP/IB/postsecondary equivalent option of these courses		Must Include: 5 AP or Dual Enrollment Courses (No more than 2 Dual Enrollment Courses)
Mathematics	4	●Geometry with Data Analysis ●Algebra I w/Probability (Accelerated Grade 8 cannot be substituted ● Algebra II with Statistics *Specialized Courses* Precalculus, Applications of Finite Mathematics Mathematics-credit eligible courses from Career & Technical Education/Advanced Placement/IB/postsecondary courses/SDE-approved courses.		
Science	4	●Biology ●a physical science (Chemistry, Physics, or Physical Science) (The third and fourth science credits may be used to meet both the science and CTE course requirement and must be chosen from the Alabama Course of Study: Science) *or Adv/AP/IB/postsecondary equivalent option of these courses.	Chemistry or Physics required for this diploma	
Social Studies	4	•World History • US History I • US History II • Government/Economics *or ADV/AP/IB postsecondary equivalent option of these courses		
Physical Education	1	●Beginning Kinesiology ●One JROTC credit may be used to meet this requirement. ●Marching Band, Band Auxiliary, AHSAA P.E./Approved Athletic Teams, or Cheerleading may substitute for Beginning Kinesiology Online		Same as Alabama High School Diploma
Health	0.5	●Alabama Course of Study: Health Education		
Career Prep	1	●Career Preparedness Course		
CTE and/or Foreign Language and/or Arts Education	3	●Students choosing CTE, Arts Education, and/or Foreign Language are encouraged to complete two courses in sequence.	3 <u>sequential</u> years of a CTE and/or Foreign Language and/or Arts Education	Must Include: 2 years of the same foreign language
Electives	2.5	●See HTHS Curriculum Guide for elective choices. Online technology enhanced course or experience requirement embedded in coursework.	Same as Alabama High School Diploma	Same as Alabama High School Diploma
Total Credits Required	24	24	24	24

Class of 2026 and Beyond

Course	Credits	Alabama High School Diploma
English Language	4	*English 9 *English 10 *English 11 *English 12 *or any Adv/AP/IB/postsecondary equivalent
Mathematics	4	*Geometry w/Data Analysis *Algebra I w/Probability (or 7th/8th grade advanced equivalent) *Algebra II w/Statistics One additional Specialized Course: Precalculus, Applications of Finite Mathematics, Math-credit eligible courses from Career & Technical/Advanced Placement/IB/postsecondary/SDE-approved courses
Science	4	*Biology *a physical science (Chemistry, Physics, or Physical Science) *The third and fourth science credits may be used to meet both the science and CTE course requirements and must be chosen from the Alabama Course of Study: Science *or the Adv/AP/IB/postsecondary equivalent option
Social Studies	4	*World History *US History I *US History II *Government/Economics *or any Adv/IB/AP/postsecondary equivalent
Physical Education	1	*Beginning Kinesiology *One JROTC credit *Marching Band, Band Auxiliary, approved Athletic Team, or Cheerleading may be used to meet the requirement
Health	.5	*Alabama Course of Study: Health Education
Career Prep	1	Career Preparedness Course
CTE and/or Foreign Language and/or Arts Education	3	*Students choosing CTE, Arts Education, and/or Foreign Language are encouraged to complete two courses in sequence
Other Electives	2.5	*See HTHS Curriculum Guide for elective choices Online enhanced course or experience requirement embedded in coursework.
Total Credits Required	24	24

Trussville City Schools Diploma Endorsement Requirements starting with the Class of 2026

TCS endorsements are used to recognize student performance beyond the Alabama High School diploma requirements. All requirements for the Alabama Diploma must still be met along with the additional requirements below.

Alabama High School Diploma with Advanced Endorsement:

***Three consecutive courses from either an academy, fine art, or foreign language, and one year of math beyond Algebra II w/Statistics**
***Must take either Chemistry or Physics and one other science from Tier I or II (see science Tier graph in the science section of the HTHS Curriculum Guide)**
***Must take at least one Advanced Placement course from any core or elective subject area**
***Must have at least a 2.5 GPA on final high school transcript**

Alabama High School Diploma with Honors Endorsement:

***Must take five AP courses (up to two could be dual enrollment), and at least two years of the same foreign language**
OR
***Must take seven AP courses (up to two could be dual enrollment).**

Grading/Credits:

Grades are awarded each nine-week grading period and HTHS uses a running average for each semester's final grade earned. Exam grades and 80% running average are always rounded up with a 5 or greater number after the decimal. The grades are rounded to the whole number. The rounding is done before averaging the total semester average. See below for each semester's running average components:

1st semester:

- Term 1 cumulative running average: 80%
- 1st semester exam: 20%
- Grades calculated to earn .50 credit

2nd semester:

- Term 2 cumulative running average: 80%
- 2nd semester exam: 20%
- Grades calculated to earn .50 credit

Promotion/Grade Classification

- 10th grade student (sophomore)=6 credits earned
- 11th grade student (junior)=12 credits earned
- 12th grade student (senior)=18 credits earned

Report Cards will be mailed for the first and second semesters. Parents and students may view their grades at any time through the home portal.

Advanced Credits

In addition to general level courses, many subjects are offered at the Advanced, AP, and Dual Enrollment college level. Advanced Placement and Dual Enrollment courses are awarded one additional quality point for grades of 60 or higher. Advanced courses are awarded .5 additional quality point for grades of 60 or higher.

Any student who takes an Advanced or AP class will benefit from the challenges offered due to the rigor, high academic standards, inclusion, increased communication and increased preparation for the future. Students who have a strong work ethic and who have demonstrated ability in the given subject, along with students who are driven to attempt college level courses while attending high school should take Advanced and AP classes. Please note that these classes are challenging and require an average of an additional 30-60 minutes of homework per night for each course. However, we want to stress the fact that students benefit at both the high school and collegiate levels from these courses regardless of achieving a qualifying score or taking the AP exam at all.

Students who take AP classes will take the associated AP exam at the end of the course.
The AP exam cost is currently $96 per exam (but that is subject to change if College Board increases the cost) and students are expected to take the exam for each AP course in which they are enrolled.
College Board and most states provide financial assistance/fee reductions for students who qualify. An extra quality point will be awarded for each AP course in which a student passes and takes the corresponding AP exam. Students should consult their prospective universities to determine individual course exam qualifying scores. Once enrolled in an AP class, a student is expected to remain in that class until the end of the school year. However, students may be permitted to withdraw from an Advanced Placement course within a specific time frame with the instructor, counselor, and administrator's approval.

Students who drop AP Course(s) will forfeit a refund.

Dual Enrollment

The Dual Enrollment Program allows high school students to enroll in college courses and receive both high school and college credit for the same course. Such arrangements allow students to meet the requirements for high school graduation while simultaneously earning college credit. Students must have a minimum cumulative grade point average of 3.0, or 2.5 for a Career Tech dual enrollment course, and meet any other requirements for specific courses in order to participate in this program. Students should consult their prospective colleges and universities to determine if the credit is accepted by that college or university. Students are required to pay college tuition for dual enrollment classes. We offer dual enrollment classes for 2022-2023. Grades earned count towards the student's high school and college GPA.

Trussville City Schools Dual Enrollment Policy 7.06

Hewitt-Trussville High School Dual Enrollment Procedure and Pre-Approval Form

If a student desires consideration of high school credit for any Dual Enrollment course, students must get this form completed prior to enrolling in the Dual Enrollment course. If a student transfers to Hewitt-Trussville High School with Dual Enrollment credit on their transcript, this must be reviewed before credit is awarded at Hewitt-Trussville High School.

Policy: 7.06 Dual Enrollment

Upon recommendation of the Superintendent, the Board may establish guidelines in accordance with the regulations of the State Department of Education by which qualified high school students are allowed to take post-secondary college courses for high school credit.

[Reference: Ala. Admin. Code 290-3-1-.02(11)] [Approved: August 18, 2016] **Procedure:** Trussville City Schools supports and encourages Dual Enrollment (DE) through agreements with Jefferson State Community College. In addition, agreements with additional in-state **and** early college programs may be considered.

Approved Dual Enrollment (DE) courses will be given additional weight of one quality point.

Before enrollment in a Dual Enrollment course, students are responsible for

1) **Verifying the high school credit and applicable GPA calculation that will be received for the course from Trussville City Schools.**
2) **Completing the official dual enrollment pre-approval Form from their college/university and getting Administrative/Counselor pre-approval for credit on high school transcript.**

In addition to numbers 1 and 2 above, students desiring to enroll in Dual Enrollment courses not offered at Hewitt-Trussville High School who wish to have them included on their high school transcript must adhere to the following requirements:

- **Only courses that are not offered at HTHS will be considered.**
- **Once a Dual Enrollment course is completed, it is the student's responsibility to provide official documentation of the end-of-course grade to the registrar by the end of the semester. Students must have submitted the official dual enrollment pre-approval forms from their college/university and previously approved by HTHS administrator/counselors.**
- **Course will not be counted for any core class credit unless approved by counselor/administrator prior to enrollment in course. Students are still required to take each of their four core classes each year.**
- **No more than twelve college credit hours may be considered for high school GPA calculation. Please be aware that more than twelve hours may make a student ineligible for freshman status, thus resulting in loss of college freshman scholarship eligibility. Student/Parent is responsible for any eligibility information.**

Jeff State tuition is paid to Jeff State through the JSCC online registration for the first semester before the school year begins. It is also necessary that students complete an online registration for each semester enrolled. DE Courses for 2022-2023 are approximately $164.00 per credit hour. For online DE Courses an additional $36.00 fee is applied. Visit jeffersonstate.edu for more information.

Advanced Placement courses offered at HTHS for 2022-2023:

- **AP English 11- Language & Composition**
- **AP English 12- Literature & Composition**
- **AP Statistics**
- **AP Calculus AB**
- **AP Calculus BC**
- **AP Computer Science Principles**
- **AP Computer Science A**
- **AP Biology**
- **AP Chemistry**
- **AP Environmental Science**
- **AP Physics 1**
- **AP Physics 2**
- **AP Physics C: Mechanics**
- **AP World History**
- **AP US History**
- **AP Government**
- **AP Economics**
- **AP Art Studio**
- **AP Latin IV**
- **AP Spanish V**
- **AP Psychology**

Dual Enrollment courses offered at HTHS for 2022-2023:

- **Dual Enrollment English 12 (English 101 & 102)- with Jeff State (Eng 101 .50 & Eng 102 .50)**
- **Dual Enrollment General Psychology 200- with Jeff State (.50 semester course at HTHS)**
- **Dual Enrollment Human Growth and Development Psychology 210- with Jeff State (.50 semester)**
- **Dual Enrollment Fundamentals of Oral Communication (DE Speech) SPH 106- with Jeff State (.50 semester course at HTHS)**
- **Emergency Medical Technician EMS 118- with Jeff State (.50 at HTHS, 1.0 course at JSCC)**
- **Emergency Medical Technician Clinical EMS 119- with Jeff State (.50 at HTHS)**
- **See Jefferson State Community College Dual Enrollment Course Listings on their website.**

***It is the parents/student's responsibility to review college course exemption/credit policies as they continue to evolve and may vary by post-secondary institutions. Before enrolling in Dual Enrollment or AP courses, it is important to note that some colleges may award course credit based on ACT or SAT subject test scores. Your review of these policies may impact your decision for enrollment in Dual Enrollment AP courses while in high school. You must request that your test scores be sent to colleges to which you will be applying.**

What is GPA?

- GPA is an abbreviation for grade point average
- It begins when you take your first high school course
- It is a point system based on all high school credit courses.
- There is a weighted GPA and unweighted GPA
- Weight is accrued by taking Advanced and AP courses, or Dual Enrollment courses
- GPA is posted on to transcript and is cumulative after each semester

How is GPA Calculated?

- HTHS uses the standard GPA scale to calculate GPA. The standard scale, awards an A with 4.0 points, a B would get you 3.0 points, a C, 2.0 points and so on.

GPA Conversion Chart:			
Numeric Grade	**4.0 Conversion for standard-level courses**	**4.0 Conversion for Adv courses**	**4.0 Conversion for DE and AP courses**
90-100	**4.000**	**4.500**	**5.000**
80-89	**3.000**	**3.500**	**4.000**
70-79	**2.000**	**2.500**	**3.000**
60-69	**1.000**	**1.500**	**2.000**
0-59	**0.000**	**0.000**	**0.000**

Conversion Chart:

GPA Example:

Courses	1st Semester (.5 credit each)	QP	2nd Semester (.5 credit each)	QP
Advanced Algebra I	**90**	**4.5**	**88**	**3.5**
Spanish I	**90**	**4.0**	**95**	**4.0**
Advanced English 9	**92**	**4.5**	**96**	**4.5**
Biology	**94**	**4.0**	**90**	**4.0**
Principles of Biomed	**91**	**4.0**	**95**	**4.0**
Life PE	**100**	**4.0**	**100**	**4.0**
Advanced World History	**86**	**3.5**	**89**	**3.5**

- Adding up total points earned 1st semester =28.5, Divide by total credits you will earn for the entire year = 7.0 and 1st semester GPA = 4.07; 2nd semester total points earned = 27.5/7= 3.93; so, this student would have a 4.0 cumulative GPA

GUIDELINES FOR THE DETERMINATION OF VALEDICTORIAN, SALUTATORIAN, AND HONOR GRADUATES (2020-2023)

Board Policy states:

- 7.13.1 Honor Graduates – Students who meet the following requirements shall be classified as honor graduates at high school commencement ceremonies:
    - Enrolled in the school system for a minimum of one full academic semester prior to the date of graduation;
    - Qualify for the most advanced academic diploma offered.
    - Successful completion and passing of any required graduation examinations and other requirements for graduation set forth by the Board; and
    - An overall grade point average (GPA) of 4.00 or higher (on a 4.00-point scale) for all courses taken, must be maintained for honor recognition.

- 7.13.2 Society of Distinction – Students who meet the following requirements shall be recognized as members of the Society of Distinction at the high school commencement ceremonies:
    - Enrolled in the school system for a minimum of one full academic semester prior to the date of graduation;
    - Qualify for the most advanced academic diploma offered;
    - Successful completion and passing of any required graduation examinations and other requirements for graduation set forth by the Board; and
    - Maintenance of an overall grade point average (GPA) of 4.25 or higher (on a 4.00-point scale) for all courses taken must be maintained.

- 7.13.3 Valedictorian/Salutatorian – To be considered for the position of either valedictorian or salutatorian, a student must qualify for the most advanced academic diploma offered and have been enrolled in the school system for a minimum of 2 full academic semesters prior to the date of graduation. The student with the highest numerical grade average in the graduating class (calculated and weighted as prescribed in Board Policy) will be the class valedictorian. The student with the second highest numerical grade average in the graduating class shall be the class salutatorian. In calculating the numerical grade average, all high school credit will be used. In the case of a tie, students having the same average will be recognized as co-valedictorians and co-salutatorians.

HTHS does not award weight for transfer classes unless the course meets one of the following criteria:

- HTHS offers the same course
- AP College Board Course
- Dual Enrollment (see HTHS Curriculum Guide)

The HTHS weight grade/weight scale will be used for all courses which award credit.

College Scholarships

It is important to begin planning for college early. Merit based scholarship opportunities are usually based on student GPA, and ACT/SAT College Admission Exams.

COURSE REQUEST PROCESS

The school master schedule for the next school year is built on the course requests of approximately 1,500 students. Each student will be given a course selection card for their respective grade. Every effort will be made to provide students with the courses for which they have been recommended or have requested. However, *the availability of courses depends upon many factors including: number of students requesting a course, number of sections of a course, and staff availability*. Consequently, some students may have to select alternate elective courses due to scheduling conflicts or cancellation of courses with insufficient enrollment. To maximize a student's priority course, request the courses they want, students should use the following the guidelines:

- **Before requesting courses for next year, check all criteria, recommendations, and academic instructional levels listed; Refer to HTHS 2022-2023 curriculum guide per grade level course selections both available online on the HTHS website under the *2022-2023 Course Selection link.***
- **Grade level counselors will be visiting classes to discuss course requests and the process for entering your preferred selections online. Students must complete grade level course selection cards.**
- **Course selection cards must include Alternate Course choices by priority and with parent signature. Return by March 18**
- **Return grade level course card with parent/s signature to student's Husky Homeroom teacher by March 18.**

Step 1: General information and instructions regarding the course scheduling process are provided to all students during large and small group sessions with counselors.
Step 2: Students will be required to enter course selections online. Username and passwords are the exact same ones that students use to login to Google classroom each day at school. There will be opportunities at school during Husky Hour for students to enter courses online through March 18th. Counselors for 2022-2023 are

- **Laura Stalls - 9th grade**
- **Heather Winship – 10th grade**
- **Melanie McGee- 11th grade**
- **Amy Cane - 12th grade**

Step 3: Once course requests are entered online, the grade level course selection card must be signed by parent/guardian and student and turned into the guidance office. The deadline for all course selection cards to be returned is March 18. Each student will meet with a counselor to review course selections entered.

***Any student not returning a course selection card signed by parent/guardian and student by the end of March 18 may forfeit the right to choose his or her classes for the 2022-2023 academic year.**

ENGLISH

<u>All English classes will require summer reading assignments. Additionally, AP English classes will require summer written assignments.</u>

- Students in ***general*** English classes will read one book which will be assigned by the English teachers. This book will be assessed on the first day of school in August.

- Students in **Advanced**, **AP, & Dual Enrollment** classes will read multiple books which will be assigned by the English teachers. AP students will also have assigned written work, due on the first day of school in August. The books will be assessed on the first day of school in August.

Summer reading lists and instructions for summer written assignments will be given out in May of the current school year. These can also be found on the school's website, each English teacher's website, the library's website (Look under library website), the main office, and the guidance office.

English 9 (01001G1001) **Year-long / 1 credit**
Grade 9

This course focuses on English Language Arts skills, such as writing, speaking, and listening, that are necessary for students to be successful in high school and beyond, with an emphasis on analyzing and interpreting informational and literary texts. Students will develop reading skills through a survey of world literature including *The Odyssey*, *Romeo and Juliet*, and *To Kill a Mockingbird*. Students will utilize these skills in the production of a research paper.

Advanced English 9 (01001E1000) **Year-long/ 1 credit**
Grade 9

Recommended Prerequisites: B average in Advanced English 8 or teacher approval

This course focuses on English Language Arts skills that are necessary for students to be successful in high school and beyond, with an emphasis on analyzing and interpreting literary and informational texts. Students will develop reading skills through a survey of world literature including *The Odyssey*, *Romeo and Juliet*, and *To Kill a Mockingbird*. Students in Advanced English 9 will read works in addition to the regular curriculum and will utilize more advanced composition techniques. Literary analysis, critical thinking, and application will be stressed. Students will utilize these skills in the production of essays, projects, oral presentations, and a research paper. Students will write in-class, timed essays frequently.

English 10 (01002G1000) **Year-long / 1 credit**
Grade 10

English 10 students will build on the skills learned in English 9. Students will be exposed to a variety of texts that will help in advancing their critical thinking, comprehensive, and application skills. Students will be expected to take part in whole-class, group, and individual assignments. Students will combine these skills to produce projects, presentations, and a research paper. This course will assist students in further developing the reading, writing, and listening skills necessary for college and career readiness.

Advanced English 10 (01002E1000)  **Year-long / 1 credit**
Grade 10

Recommended Prerequisites: B average in Advanced English 9 or teacher approval.

This course is designed with the expectation of not only meeting, but exceeding state and district standards in English Language Arts. The fundamental premise of this course is to prepare students for advanced placement English (AP) in the eleventh grade.

Advanced English 10 is a **rigorous** course that emphasizes further development in the areas of reading, writing, listening and speaking. Students will be exposed to a variety of literary genres, including poetry, drama, short stories, novels and non-fiction texts. Students will be expected to read and comprehend grade-level-appropriate texts, and compose oral and written literary responses to historically and culturally significant works of literature. In addition, students will be expected to write coherent and focused essays that convey a well-defined perspective, tightly-reasoned argument, awareness of audience and purpose, and a command of English conventions.

English 11 (01003G1000)  **Year-long / 1 credit**
Grade 11

This course focuses on developing the skills necessary to comprehend, analyze, and communicate, both orally and in writing, the themes that emerge through a survey of American literature (fiction and nonfiction) reflected in various genres such as the novel, short story, drama, poetry, and nonfiction essay and biography. This course provides the student with various aspects of communication involving grammar and standard practices in speaking and writing (paragraphs, themes, and research papers). Students will write in-class, timed essays frequently. Research paper is required.

AP English 11 – Language & Composition (01005H1000)  **Year-long / 1 credit**
Grade 11

Recommended Prerequisites: B average in Advanced English 9 and Advanced English 10, and teacher approval
Course fee required

This course will train students to become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts. This course will also give them the practice and helpful criticism necessary to make them flexible writers who can compose in a variety of modes and for a variety of purposes. The course content is established by the College Board and students may earn college credit based on an AP exam at the end of the year. Score requirements for credit are determined by individual colleges/universities. Students and parents should be prepared for the rigor of the Advanced Placement curriculum; an extensive amount of outside reading and writing is required for this course.

Students who take AP classes will take the associated AP exam at the end of the course. The AP exam cost is currently $96 per exam (subject to change per College Board) and students are expected to take the exam for each AP course in which they are enrolled.

English 12 (01004G1000)  **Year-long / 1 credit**
Grade 12

In this course, students review basic areas of British English: reading, speaking and listening, language, and vocabulary. In addition, they are given the opportunity to progress toward the more elaborate means of oral and written communication and toward a better understanding of carefully selected nonfiction literature, informational texts, plays, novels, and poetry. Research paper required to graduate.

AP English 12 Literature & Composition (01006H1000) **Year-long / 1 credit**
Grade 12

Recommended Prerequisites: B average in AP English 11, a minimum score of 24 on the English subtest on the ACT, teacher approval.
Course fee required

This course is designed to provide the student who has the desire and ability the opportunity to complete college level work while still in high school. Emphasis is placed on extensive and intensive reading and writing. The course content is established by the College Board and students may earn college credit based on a student's score on an AP exam at the end of the year. Score requirements for credit are determined by individual colleges/universities. Students and parents should be prepared for the rigor of the Advanced Placement curriculum; an extensive amount of outside reading and writing is required for this course.

Students who take AP classes will take the associated AP exam at the end of the course. The AP exam cost is currently $96 per exam (subject to change per College Board) and students are expected to take the exam for each AP course in which they are enrolled.

Dual Enrollment English Composition I (01999C1001) **Semester / .5 credit**
Dual Enrollment English Composition II (01999C1002) **Semester / .5 credit**
Grade 12

Prerequisites: B average in 11th grade English, teacher approval, senior status, minimum cumulative GPA of 3.0, minimum score of 18 on the English subtest of the ACT. Continued enrollment in ENG 102 requires a grade of C or higher in ENG 101.

Students registering for this course will earn high school credit for English 12 and will complete six semester hours of college credit in English Composition I and II through a dual enrollment agreement with Jefferson State Community College. The curricula for these courses are interlaced in order to meet all of the requirements for each course component. Dual Enrollment English 12 is designed for the student with above average abilities in English. The course content encompasses an accelerated study of grammar and usage as well as composition, vocabulary, spelling, speaking, and reading skills. English Composition 101 provides instruction and practice in the writing of at least six extended compositions and the development of analytical and critical reading skills and basic reference and documentation skills in the composition process. English Composition I includes instruction and practice in library usage and computer usage. English Composition 102 provides instruction and practice in the writing of six formal essays, at least one of which is a research project using outside sources and/or references effectively and legally. Additionally, English Composition II provides instruction in the development of analytical and critical reading skills in the composition process. English Composition II may include instruction and practice in library usage and computer research. Students are required to pay the college tuition for this course on the first day of school and then again in January. *See college course credit policies of colleges in which you are applying before enrollment in these courses. See page 8.

MATHEMATICS

Students must be enrolled in a mathematics course each year of high school.

All math courses require the signature of your present math teacher. If your selection is not approved, your teacher will indicate "not recommended." Students must have completed the prerequisites as indicated below:

The following criteria are considered when recommending students for math courses:

1. **Advanced Courses**
   a. **Grade of A or B in previous Advanced courses**
   b. **Grade of A in previous general math courses**
   c. **Teacher recommendation**
2. **AP Courses**
   a. **Teacher recommendation**
   b. **AP Calculus AB: a minimum of 22 on the math portion of the ACT, and an A or B average in advanced precalculus, or a minimum grade of 95 or higher for the year in general precalculus.**
   c. **AP Calculus BC: a minimum of 25 on the math portion of the ACT, and an A average in advanced precalculus.**
   d. **AP Statistics: Successful completion of Advanced Algebra II with Statistics or Advanced Algebra II with Statistics with grade of 80 or higher, Advanced Precalculus with grade of 70 or higher, or Precalculus with grade or 80 or higher, or teacher recommendation.**

Note: A student attempting to enroll in non-recommended mathematics course will be required to:
*Submit an override letter to the grade level counselor

Geometry with Data Analysis (02073G1000) **Year-long / 1 credit**
Grades 9 and 10

Prerequisite: Middle School Math

In Geometry with Data Analysis, students incorporate knowledge and skills from several mathematics content areas, leading to a deeper understanding of fundamental relationships within the discipline and building a solid foundation for further study. 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 extend their middle school work with conjecturing and creating informal arguments to more formal proofs in this course.

Advanced Geometry with Data Analysis (02073E1000) **Year-long / 1 credit**
Grades 9 and 10

Prerequisite: 80 or better in Advanced Middle School Math or 90 in general Middle School Math for the whole year; teacher recommendation; standardized test scores

(See Geometry with Data Analysis description above)
Students who are in Advanced Geometry with Data Analysis are encouraged to continue with future advanced math classes and eventually take AP-level math classes. Advanced Geometry with Data Analysis is a very challenging course that includes an in-depth study of formal proofs and extensive applications of geometrical concepts. Technology is also incorporated into instruction as a means of improving reasoning abilities.

Algebra I with Probability (02052G1000) **Year Long/1Credit**
Prerequisites: Successful completion of Geometry **Grade 10**

Algebra I with Probability is a newly-designed course which builds upon algebraic concepts studied in the middle grades. It provides students with the necessary knowledge of algebra and probability for use in everyday life and in the subsequent study of mathematics. Emphasis is placed on functions: linear, absolute value, quadratic, and exponential; and functions as explicit and recursive. Students will be learning the following properties of algebra to simplify expressions and solve equations: factoring, completing the square, rules of powers, and radicals. Graphing is also an important component of study in Algebra I with Probability. Students will find points of intersection to solve equations and transform graphs of functions through translation, reflection, rotation, and dilation. Probability will also be covered in this course. The study of probability will enhance students' ability to organize information and improve decision-making. The following topics will be covered: quantitative literacy, visualizing and summarizing data, and conditional probabilities. This course serves as the cornerstone for all high school mathematics courses.

Advanced Algebra I with Probability (02052E1000) **Year Long/1Credit**
Grade 10

Prerequisites: Successful completion of Advanced Geometry with a grade of 80 or above or Geometry with grade of 90 or above

This course is for the mathematically stronger student. Students who are in Advanced Algebra I with Probability are encouraged to continue with future advanced math classes and may eventually take AP-level math classes. This course is encouraged for students who may plan to pursue a career in Science, Technology, Engineering or Mathematics. Topics covered are the same as General Algebra I with Probability but at a faster pace and are studied more intently, delving deeper into real world applications. Problems may be more complex and extensive on topics such as quadratics and transformation of functions.

Algebra II with Statistics (02056G1000) **Year Long/1Credit**
Prerequisite: Successful completion of Geometry and Algebra I or equivalent **Grades 9-12**

Algebra II with Statistics is designed to extend students' algebraic knowledge and skills. Algebra II with Statistics involves students exploring polynomial, trigonometric (specifically sine and cosine), logarithmic, reciprocal, radical and general piecewise functions. Students will also solve equations associated with these classes of functions. Students will study Data Analysis, Statistics and Probability. Students will also study matrices and the complex numbers system. Algebra II with Statistics or its equivalent course is required for all students. This course is a general requirement for college admission, and is necessary for success on the ACT and SAT tests.

Advanced Algebra II with Statistics (02056E1000) **Year-long / 1 credit**
Grades 9-12

Prerequisites: Successful completion of Advanced Geometry with a grade of 80 or above and Advanced Algebra I or equivalent, or Geometry with a grade of 90 and Algebra I or equivalent.

This course is the extension of the study of algebraic concepts. This course is for the mathematically stronger student. Students who are in Advanced Algebra II are encouraged to continue with future advanced math classes and eventually take AP-level math classes. This course is encouraged for students who may plan to pursue a career in Science, Technology, Engineering or Mathematics. Topics are studied more intently, delving deeper into real world applications and proofs of mathematical theories. Topics covered are the same as General Algebra II with Statistics. Topics which are studied more in depth, but not limited to: complex numbers, logarithms, rational expressions, polynomial functions, trigonometry, and analysis of functions.

Pre-Calculus (02110G1000) **Year-long / 1 credit**
Grades 11-12

Prerequisite: Successful completion of Advanced Algebra II with Statistics or Algebra II with Statistics with grade of 75 or above

Precalculus is designed primarily for students considering careers in Science, Technology, Engineering, or Mathematics. Precalculus builds on the study of algebra and functions in Algebra II with Trigonometry, adding rational functions, all trigonometric functions, and general piecewise-defined functions to the families of functions considered. In addition to focusing on the families of functions, Precalculus takes a deeper look at functions as a system, including composition of functions and inverses. Precalculus also expands on the study of trigonometry in previous courses and considers vectors and their operations.

Advanced Pre-Calculus (02110E1000) **Year-long / 1 credit**
Grades 11-12

Prerequisite: Successful completion of Advanced Algebra II with Statistics with grade of 80 or above or Algebra II with Statistics with grade of 90 or above **Grades 11-12**

This course is for the mathematically stronger student. Students who are in Advanced Precalculus are encouraged to take an AP-level math class the following year. This course uses advanced strategies to prepare students for AP-level classes. Topics covered are the same as Precalculus but at a faster pace, delving deeper into real-world applications. Topics which are studied more in depth, but not limited to: vectors, polar and parametric equations, and trigonometric identities.

Applications of Finite Mathematics (02136G1000) Year-long / 1 credit
Prerequisite: Algebra II with Statistics **Grade 12**

Applications of Finite Mathematics is a newly-designed, specialized course developed as a fourth-year course that extends beyond the three years of essential content that is required for all high school students. Applications of Finite Mathematics provides students with the opportunity to explore mathematics concepts related to discrete mathematics and their application to computer science and other fields. Students who are interested in postsecondary programs of study that do not require calculus (such as elementary and early childhood education, English, history, art, music, and technical and trade certifications) would benefit from choosing Applications of Finite Mathematics as their fourth high school mathematics credit. It may also be a useful supplemental course for students pursuing a career in computer science.

AP Statistics (02203E1000) Year-long / 1 credit
Grades 11 12

Prerequisite: Successful completion of Advanced Algebra II with Statistics or Advanced Algebra II with Statistics with grade of 80 or higher, Advanced Precalculus with grade of 70 or higher, or Precalculus with grade or 80 or higher, or teacher recommendation.
Course Fee Required

This course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The four broad themes include: explaining data, observing patterns and departures from patterns, planning a study, deciding what and how to measure data, anticipating patterns, producing models using probability and simulation, and statistical inference guiding the selection of appropriate models. The course content is established by the College Board and students may earn college credit based on an AP exam taken at the end of the year. Score requirements for credit are determined by individual colleges/universities. Students and parents should be prepared for the rigor of the Advanced Placement curriculum.

Students who take AP classes will take the associated AP exam at the end of the course. The AP exam cost is currently $96 per exam (subject to change per College Board) and students are expected to take the exam for each AP course in which they are enrolled.

AP Calculus (AB Level) (02124E1000) **Year-long / 1 credit**
Grades 11-12

Prerequisite: Successful completion of Advanced Pre-Calculus with grade of 80 or higher or Pre-Calculus with grade of 95 or higher, teacher recommendation, and a score of 22 or higher on the Math portion of the ACT.
Course Fee required

This course includes the intense study of differentiation and integration of algebraic, trigonometric, exponential, and logarithmic functions with applications. The course content is established by the College Board and students may earn college credit based on an AP exam taken at the end of the year. Score requirements for credit are determined by individual colleges/universities. Students and parents should be prepared for the rigor of the Advanced Placement curriculum; an extensive amount of outside work is required for this course.

Students who take AP classes will take the associated AP exam at the end of the course. The AP exam cost is currently $96 per exam (subject to change per College Board) and students are expected to take the exam for each AP course in which they are enrolled.

AP Calculus (BC Level) (02125E1000)  **Year-long / 1 credit**
Grade 12

Prerequisite: Successful completion of Advanced Precalculus with grade of 90 or above, teacher recommendation, and a score of 25 or above on the Math portion of the ACT.
Course Fee required

This course includes the intense study of the topics covered in AP Calculus AB: differentiation and integration of algebraic, trigonometric, exponential, and logarithmic functions with applications plus additional topics in differentiation and integration, specifically with respect to parametric, polar, and vector equations as well as series. The course content is established by the College Board and students may earn college credit based on an AP exam taken at the end of the year. Score requirements for credit are determined by individual colleges/universities. Students and parents should be prepared for the rigor of the Advanced Placement curriculum; an extensive amount of outside work is required for this course. Students that are successful in the course will be ready to start Calculus III as a freshman.

Students who take AP classes will take the associated AP exam at the end of the course. The AP exam cost is currently $96 per exam (subject to change per College Board) and students are expected to take the exam for each AP course in which they are enrolled.

The courses listed below may be used to fulfill a student's fourth credit in mathematics:

10013G1000	**Computer Science Essentials – PLTW**
10016G1000	**Cybersecurity – PLTW (Prerequisite: Computer Science Essentials)**
10019E1000	**Computer Science Principles, AP**
10157E1000	**Computer Science A, AP (teacher recommendation required)**

PLTW-Computer Science Essentials (03166E1000)  **1 math, or 1 science, or 1 elective credit**
Fee required **Grade 12**
Prerequisite: None

Collaborate to create mobile apps. Solve problems and create value for others through innovation and creativity. Explore how innovations in computing impact and connect our world. With a gentle introduction to programming, you will learn how to put your designs into practice. Whether these are your first steps in computer science, or a continuation of your journey, Computer Science Essentials will give you confidence to succeed today and beyond.

CS Essentials introduces students to coding fundamentals through an approachable, block-based programming language where they will have early success in creating usable apps. As students sharpen their computational thinking skills, they will transition to programming environments that reinforce coding fundamentals by displaying block programming and text-based programming side-by-side. Finally, students will learn the power of text-based programming as they are introduced to the Python® programming language. The course engages students in computational thinking practices and collaboration strategies, as well as industry standard tools authentic to how computer science professionals work. Students will learn about professional opportunities in computer science and how computing can be an integral part of all careers today.

PLTW-Cybersecurity (10016G1000)  **1 math, or 1 science, or 1 elective credit**
Fee Required **Grade 12**
Prerequisite: Computer Science Essentials

Cybersecurity - PLTW is a one-credit course that introduces students to the tools and concepts of cybersecurity and encourages them to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

AP Computer Science Principles (10013G1000) **Year-long / 1 credit**
Course Fee required **Grades 12**

College-level advanced course following the curriculum established by the college board advanced placement (AP) program for computer science; focuses on the innovative and multidisciplinary aspects of computing as well as the computational thinking practices that help students see how computing is relevant to many areas of their everyday lives; introduces students to the creative aspects of programming abstractions algorithms, large data sets, the internet, cyber security concerns, and computing impacts.*For seniors who have completed Algebra II, this course can count as their final math course for graduation and this course can also be taken as an elective for qualified students.

Students who take AP classes will take the associated AP exam at the end of the course. The AP exam cost is currently $96 per exam (subject to change per College Board) and students are expected to take the exam for each AP course in which they are enrolled.

AP Computer Science A (10157E1000) **Year-long / 1 credit**
Prerequisite: (teacher recommendation required) **Grade 12**
Course Fee Required

AP Computer Science A is equivalent to a first-semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP CSA course curriculum is compatible with many CS1 courses in colleges and universities. *For seniors who have completed Algebra II, this course can count as their final math course for graduation and this course can also be taken as an elective for qualified students.

Students who take AP classes will take the associated AP exam at the end of the course. The AP exam cost is currently $96 per exam (subject to change per College Board) and students are expected to take the exam for each AP course in which they are enrolled.

Career Mathematics (02153G1012) **Year-long / 1 credit**
Prerequisites: Successful completion of Algebra II with Statistics **Grade 11-12**
Counselor Approval Required
No Course Fee

A one-credit course that provides students with the foundational knowledge and processes needed to apply mathematic concepts in a career setting. Emphasis is placed on applied problems in the areas of measurement, entrepreneurial economics, and finances.

SCIENCE

Science Course Tiers

Tier I AP Science Courses	Tier II Advanced Science Courses	Tier III Science Courses
AP Biology (Double & Single)	Advanced Biology	Biology
AP Chemistry (Double & Single)	Advanced Chemistry	Environmental
AP Physics 1 (Double & Single)	Advanced Physics	Physical Science
AP Physics 2 (Single)	Advanced Environmental	Earth and Space
AP Physics C: Mechanics & E/M (ind. study)	Advanced Anatomy & Physiology	Anatomy and Physiology
AP Environmental (Single)	Chemistry	Computer Science Essentials
AP Computer Science Principles	Physics	Cyber Security
AP Computer Science A		

All students shall earn the required four science credits for the Alabama High School Diploma. Two credits must include: A life science - (Biology) and A physical science - (which may include Chemistry, Physics, or Physical Science). And any other two science courses of their choice to fulfill the requirements.

All science courses listed satisfies eligibility requirements for the NCAA National Clearinghouse.

Students who take AP classes will take the associated AP exam at the end of the course. The AP exam cost is currently $96 per exam (subject to change per College Board) and students are expected to take the exam for each AP course in which they are enrolled.

Biology (03051G1000)
Lab fee $25

Year-long / 1 credit
Grade 9

This life science course is designed to teach students about living organisms and vital processes. Topics to be covered include scientific skills, biochemistry, cellular biology, genetics, taxonomy, evolution, and ecological systems. The course will include laboratory activities and experiments designed to reinforce the course content. It aligns with the state course of study requirements for science.

Advanced Biology (03051E1000)
Recommended Prerequisite: Teacher recommendation
Lab fee $25

Year-long / 1 credit
Grade 9

Students who are in Advanced Biology are encouraged to continue with future advanced science classes and eventually take AP level science classes. This course covers all the concepts taught in Biology, but in more depth and at a more rigorous pace. The course work is planned so that laboratory and student-produced activities are an additional means
of enhancing information. Students will be required to write essays and read outside materials related to biology, and engage in research either independently or in a classroom setting.

AP Biology (*03056E10P2*) **Year-long / 1 credit**
Research and Design in Biology (Lab) (03097G1000) **Year-long / 1 credit**
Double-Period Course **Grade 9-12**

Recommended Prerequisites: Successful completion of Advanced Biology or 9th grade placement test.
AP Science Lab fee required $35

AP Biology is a college level course recommended for students interested in medicine, health-related careers, and life science majors. The course content is established by the College Board and students may earn college credit based on an AP exam taken at the end of the year. Score requirements for credit are determined by individual colleges/universities. Students and parents should be prepared for the rigor of the Advanced Placement curriculum with its extensive amount of reading. There are 8 units covering the AP Biology Curriculum with emphasis placed on integrating knowledge, principles, and processes of biology across units and understanding the means by which hypotheses are generated, biological information is collected and analyzed leading to biologically supported conclusions and predictions. An understanding that science is a human endeavor with social consequences is emphasized throughout the course.

AP Biology (*03056E10P1*) **Year-long / 1 credit**
Research and Design Biology (Lab) (03097G1000) **Year-long/ 1 credit**
Single-Period Course **Grades 10-12**

Recommended Prerequisite: Successful completion of Advanced Biology or Advanced Chemistry or Advanced Physics with a 90 or above or a score of 3+ on either an AP Chemistry or AP Physics exam or Enrollment dependent on AP teacher approval

AP Science Lab fee required. $35

This is a single-block college-level course recommended for students interested in medicine, health-related careers, and science majors. The course content is established by the College Board and students may earn college credit based on an AP exam taken at the end of the year. Score requirements for credit are determined by individual colleges and universities. Students and parents should be prepared for the rigor of the AP curriculum. An extensive amount of reading and writing is required for this course. Emphasis is placed on laboratory exercises. Students enrolling in the single-period option of AP Biology will be expected to do an increased amount of homework as both the 2 period and single period courses will be on the same schedule for tests and labs. The single period course is intended for those students who can demonstrate academic discipline in terms of self-motivation. This course satisfies the state requirements of a life science course. Lab may show as 8th or 9th period lab course.

Environmental Science (03003G1000) **Year-long / 1 credit**
Prerequisites: Biology **Grade 11-12**
Lab fee $25

Introduction to basic terms and concepts of environmental science. This course will focus on issues and possible solutions to common and current environmental problems such as water and air pollution, climate change, energy use, and food production. This course satisfies the state requirements of a life science course.

Advanced Environmental (03003E1000) **Year-long/ 1 credit**
Prerequisites: Biology and Chemistry **Grades 11-12**
Lab fee $25

Advanced study of environmental science concepts. This course will focus on issues and possible solutions to common and current environmental problems with a focus on state and national issues surrounding water and air pollution, climate change, energy use, and food production. College preparatory skills such as science ACT format and science writing are part of the course.

AP Environmental Science (03207E1000) **Year-long / 1 credit**
Single-Period Course **Grades 11-12**

Prerequisite: Advanced Biology and Advanced Chemistry (Standardized test scores used in determining placement)

AP Science Lab fee required $35

AP Environmental is a single period college level course recommended for students who plan to major in an applied science field. This 9-unit course uses concepts of ecology, chemistry, physics, and earth science to weigh the economic, societal, and environmental effects of human activities such as mining, food production, energy use, water use and global change. The course content is established by the College Board and students may earn college credit based on an AP exam taken at the end of the year. Score requirements for credit are determined by individual colleges/universities. Students and parents should be prepared for the rigor of the Advanced Placement curriculum with its extensive amount of reading.

Chemistry (03101G1000) **Year-long / 1 credit**
Recommended Prerequisite: Successful completion of Algebra I and Biology **Grade 10-12**

Lab fee $25

This is a laboratory course designed to help students see how chemical principles and concepts are developed from experimental observations and data. The student should be able to master certain skills, such as writing formulas, solving mole problems, and predicting reactions. (This course satisfies the state requirements of a physical science course).

Advanced Chemistry (03101E1000) **Year-long / 1 credit**
Recommended Prerequisite: Advanced Biology or teacher recommendation **Grades 10-12**
Lab fee $25

Students in advanced science classes are expected to take AP science classes in 11th and 12th grades. Advanced Chemistry is designed as an enrichment course, emphasizing the same basic concepts as the regular course, but extending them in depth and scope. In addition to the regular requirements, the advanced course requires more mathematical problem solving and independent study. This course serves as the science prerequisite to all AP science courses.

AP Chemistry (03106E10P1) **Year-long / 1 credit**
Research and Design in Chemistry (Lab) (03108G10SP) **Year-long / 1 credit**
Single-Period Course **Grades 11-12**

Recommended Prerequisite: Teacher recommendation or successful completion of Advanced Chemistry with 90 or above average; Successful completion of Algebra II with 90 or above.

AP Science Lab fee required. $35

This is a college-level course recommended for students interested in medicine, health-related careers, and science majors. The course content is established by the College Board and students may earn college credit based on an AP exam taken at the end of the year. Score requirements for credit are determined by individual colleges and universities. Students and parents should be prepared for the rigor of the AP curriculum. An extensive amount of reading and writing is required for this course. Emphasis is placed on laboratory exercises. Lab will show on schedule as an 8th or 9th period lab.

AP Chemistry (03106E10P2) **Year-long / 1 credit**
Research and Design in Chemistry (Lab) (03108G10DB) **Year-long / 1 credit**
Double-Period Course **Grades 10-12**

Recommended Prerequisite: Teacher recommendation or successful completion of Advanced Biology, Chemistry, Advanced Chemistry, AP Biology, or AP Physics; Current enrollment in Algebra II or higher-level math course.

AP Science Lab fee required $35

This is a college-level course recommended for students interested in medicine, health-related careers, and science majors. The course content is established by the College Board and students may earn college credit based on an AP exam taken at the end of the year. Score requirements for credit are determined by individual colleges and universities. Students and parents should be prepared for the rigor of the AP curriculum. An extensive amount of reading and writing is required for this course. Emphasis is placed on laboratory exercises.

Students who take AP classes will take the associated AP exam at the end of the course. The AP exam cost is currently $96 per exam (subject to change per College Board) and students are expected to take the exam for each AP course in which they are enrolled.

Anatomy and Physiology (03053G1000)
Recommended Prerequisite: Chemistry.
Lab fee $25

Year-long / 1 credit
Grades 11-12

This is a science course that covers the structure and functions of the various organ systems of the human body. Hands on laboratory activities & dissections are included in this course. This course is recommended for those students who plan to pursue a career in health-related sciences in college, especially for those who are interested in the medical field. It aligns with the state course of study requirements. (This course satisfies the state requirements of a life science course.)

Advanced Anatomy and Physiology (03053E1000)
Recommended Prerequisite: Chemistry or Physics
Lab fee $25

Year-long / 1 credit
Grades 11-12

This is a rigorous science course that covers the structure and functions of the various organ systems of the human body. Hands on laboratory activities & dissections are included in this course. This course is recommended for those students who plan to pursue a career in health-related sciences in college, especially for those who are interested in the medical field. It aligns with the state course of study requirements. (This course satisfies the state requirements of a life science course.)

Physical Science (03159G1000)
Lab Fee $25

Year-long / 1 credit
Grade 10

Physical Science is a conceptual, inquiry-based course that provides students with an investigation of the basic concepts of chemistry and physics. Students use evidence from their own investigations as well as the investigations of others to develop and refine knowledge of core ideas. The standards provide a depth of conceptual understanding that will adequately prepare them for college, career, and citizenship with an appropriate level of scientific literacy. Content standards are organized around 4 core idea:

1. Matter and Its Interactions, deals with the substances and processes that encompass our universe on both microscopic and macroscopic levels.
2. Motion and Stability: Forces and Interactions, includes the components of forces and motion, types of interactions, and stability/instability in physical systems.
3. Energy involves the conservation of energy, energy transformations, and applications of energy to everyday life.
4. Waves and Their Applications in Technologies for Information Transfer, examines wave properties, electromagnetic radiation, and information technologies and instrumentation

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Earth & Space Science (03008G1000)
Recommended Prerequisite: Biology and Physical Science or Chemistry
Lab fee required.

Year-long / 1 credit
Grades 11 - 12

This course will emphasize the laboratory application and field study of biological, chemical, and physical principles to the study of selected topics in astronomy, meteorology, geology, oceanography, and associated sciences. Topics include astronomy, meteorology, geology, and oceanography. Students should be able to apply mathematical skills and math computations.

Physics (03151G1000)

Recommended Prerequisite: Successful completion or concurrent enrollment in Advanced Algebra I, Alg II, AP Stats, or PreCalculus
Lab Fee Required $25

Year-long / 1 credit
Grades 10-12

General Physics is an algebra-based, introductory physics course that ~~will~~ focuses on the conceptual understanding of topics such as motion (constant velocity, uniform acceleration, and projectile motion), balanced and unbalanced forces, energy transformations, momentum, applications to everyday life, and waves and their applications. Inquiry-based instruction will allow students to learn through hands-on lab experimentation.

General Physics is designed for the student who enjoys hands-on activities but may not have mastered the required math skills necessary for Advanced or AP Physics. (This course satisfies the state requirements of a physical science course.

Advanced Physics (03151E1000) **Year-long / 1 credit**
Grades 10-12

Recommended Prerequisite: Successful completion or concurrent enrollment in Advanced Algebra I, Algebra II with Stats, or Precalculus

Lab fee $25

Advanced Physics is an algebra-based, introductory physics course which provides required science preparation for students who plan to pursue postsecondary studies and careers in science, technology, engineering, and mathematics (STEM) related fields. Students learn through experimentation, empirical data collection, and data analysis.

Advanced Physics content standards are organized around three central core ideas:

1. Motion and Stability: Forces and Interactions, concentrates on forces and motion, types of interactions, and stability and instability in physical systems.
2. Energy, investigates conservation of energy, energy transformations, and applications of energy to everyday life.
3. Waves and their applications in Technologies for Information Transfer, examines wave properties, electromagnetic radiation, and information technologies and instrumentation.

AP Physics 1 (03165E10P1) **Year-long / 1 credit**
Research and Design in Physics (Lab) (03162G10SP) **Year-long/ 1 credit**
Single-Period Course **Grades 11-12**

Recommended Prerequisites: Successful completion of an Adv. Science Class with 90 or above; Successful completion or concurrent enrollment in Algebra II and PreCal/Trig with 90 or above; Enrollment dependent on AP teacher approval
AP Science Lab Fee Required $35

This is a rigorous single-block college-level course recommended for academically exceptional students interested in medicine, engineering, or science. The course content is established by the College Board and students may earn college credit based on an AP exam taken at the end of the year. Score requirements for credit are determined by individual colleges and universities. Students and parents should be prepared for the rigor of the AP curriculum. An extensive amount of homework is required for this course. Emphasis is placed on laboratory exercises.
AP Physics 1 is an algebra-based course that explores topics of Newtonian mechanics (including forces, linear motion, projectile motion, uniform circular motion, simple harmonic motion and rotational motion); work, energy, and power; linear and angular momentum, mechanical waves and sound; electrostatics and simple D/C circuits. Inquiry-based learning and extensive laboratory experiments are used to help students develop science reasoning skills. Lab may
show as 8th or 9th period course.

AP Physics 1 (03165E10P2) **Year-long / 1 credit**
Research and Design in Physics (Lab) (03162G10DB) **Year-long / 1 credit**
Double-Period Course **Grade 11-12**

Recommended Prerequisites: Successful completion of an Advanced Science Class; Successful completion or concurrent enrollment in Algebra II and PreCal/Trig; Enrollment dependent on AP teacher approval
AP Science Lab Fee Required $35

This is a rigorous double-period college-level course recommended for students interested in medicine, engineering, or science. The course content is established by the College Board and students may earn college credit based on an AP exam taken at the end of the year. Score requirements for credit are determined by individual colleges and universities. Students and parents should be prepared for the rigor of the AP curriculum. Emphasis is placed on laboratory exercises.
AP Physics 1 is an algebra-based course that explores topics of Newtonian mechanics (including forces, linear motion, projectile motion, uniform circular motion, simple harmonic motion and rotational motion); work, energy, and power; linear
and angular momentum, mechanical waves and sound; electrostatics and simple D/C circuits. Inquiry-based learning and extensive laboratory experiments are used to help students develop science reasoning skills.

AP Physics 2 (03166E1000) **Year-long / 1 credit**

Single-Period Course **Grade 12 (Grade 11 if completed AP Physics 1 in 10th grade)**

Required Prerequisite: Successful completion of AP Physics 1 (or Advanced Physics with enrollment dependent AP teacher approval)

AP Science Lab Fee Required $35

This is a rigorous single-block college-level course recommended for students interested in medicine, engineering, or science. The course content is established by the College Board and students may earn college credit based on an AP exam taken at the end of the year. Score requirements for credit are determined by individual colleges and universities. Students and parents should be prepared for the rigor of the AP curriculum. Emphasis is placed on laboratory exercises.

AP Physics 2 is an algebra-based course that explores topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics. Inquiry-based learning and extensive laboratory experiments are used to help students further develop science reasoning skills.

AP Physics C: Mechanics (03164E1000) **Year-long / 1 credit**

Single-Period Course **Grade 12 (Grade 11 if taking Calculus concurrently)**

Required Prerequisite: Successful completion of AP Physics 1 (or Advanced Physics with enrollment dependent on AP teacher approval)

Required Corequisite: Enrollment in AP Calculus AB or AP Calculus BC

AP Science Lab Fee Required $35

This is a rigorous single-block college-level course recommended for students interested in engineering or science. The course content is established by the College Board and students may earn college credit based on an AP exam taken at the end of the year. Score requirements for credit are determined by individual colleges and universities. Students and parents should be prepared for the rigor of the AP curriculum. Emphasis is placed on laboratory exercises.

AP Physics C: Mechanics is a calculus-based Physics course. It is designed to prepare students for the AP Physics C: Mechanics Exam. The Physics C: Mechanics course is equivalent to a one-semester, calculus-based, college-level physics course and is especially appropriate for students planning to specialize or major in engineering or one of the physical sciences. The course explores topics such as kinematics; Newton's laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Introductory differential and integral calculus are used throughout the course.

The courses listed below may be used to fulfill a student's fourth credit in mathematics and science:

10013G1000	**Computer Science Essentials – PLTW**
10016G1000	**Cybersecurity – PLTW (Prerequisite: Computer Science Essentials)**
10019E1000	**Computer Science Principles, AP**
10157E1000	**Computer Science A, AP (teacher recommendation required)**

PLTW-Computer Science Essentials (03166E1000)
Fee required
Prerequisite: None

1 math, or 1 science, or 1 elective credit
Grades 11-12

Collaborate to create mobile apps. Solve problems and create value for others through innovation and creativity. Explore how innovations in computing impact and connect our world. With a gentle introduction to programming, you will learn how to put your designs into practice. Whether these are your first steps in computer science, or a continuation of your journey, Computer Science Essentials will give you confidence to succeed today and beyond.

CS Essentials introduces students to coding fundamentals through an approachable, block-based programming language where they will have early success in creating usable apps. As students sharpen their computational thinking skills, they will transition to programming environments that reinforce coding fundamentals by displaying block programming and text-based programming side-by-side. Finally, students will learn the power of text-based programming as they are introduced to the Python® programming language. The course engages students in computational thinking practices and collaboration strategies, as well as industry standard tools authentic to how computer science professionals work. Students will learn about professional opportunities in computer science and how computing can be an integral part of all careers today.

PLTW-Cybersecurity (10016G1000)
Fee Required
Prerequisite: Computer Science Essentials

1 math, or 1 science, or 1 elective credit
Grades 11-12

Cybersecurity - PLTW is a one-credit course that introduces students to the tools and concepts of cybersecurity and encourages them to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

AP Computer Science Principles (10013G1000)
Course Fee required

1 math, or 1 science, or 1 elective credit
Year-long / 1 credit
Grades 12

College-level advanced course following the curriculum established by the college board advanced placement (AP) program for computer science; focuses on the innovative and multidisciplinary aspects of computing as well as the computational thinking practices that help students see how computing is relevant to many areas of their everyday lives; introduces students to the creative aspects of programming abstractions algorithms, large data sets, the internet, cyber security concerns, and computing impacts.*For seniors who have completed Algebra II, this course can count as their final math course for graduation and this course can also be taken as an elective for qualified students.

Students who take AP classes will take the associated AP exam at the end of the course. The AP exam cost is currently $96 per exam (subject to change per College Board) and students are expected to take the exam for each AP course in which they are enrolled.

AP Computer Science A (10157E1000)
Prerequisite: (teacher recommendation required)
Course Fee Required

1 math, or 1 science, or 1 elective credit
Year-long / 1 credit
Grade 12

AP Computer Science A is equivalent to a first-semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP CSA course curriculum is compatible with many CS1 courses in colleges and universities. *For seniors who have completed Algebra II, this course can count as their final math course for graduation and this course can also be taken as an elective for qualified students.

Students who take AP classes will take the associated AP exam at the end of the course. The AP exam cost is currently $96 per exam (subject to change per College Board) and students are expected to take the exam for each AP course in which they are enrolled.

SOCIAL STUDIES

World History (04053G1000)

Year-long / 1 credit
Grade 9

World History: 1500 to the Present is the required study of world history for students in the ninth grade. The course is organized chronologically with content topics that focus on critical issues in history during recent times. Students study and analyze global issues regarding politics, economics, society, and the environment.

Advanced World History (04053E1000)

Year-long / 1 credit
Grade 9

Students in Advanced World History are expected to take Advanced US History I, AP US History in 11th grade, and AP Government and Economics in 12th grade. This course is more rigorous than regular World History and requires excellent reading and writing skills.

AP World History (04057E1000)
Recommended Prerequisite: Teacher Approval

Year-long / 1 credit
Grades 9 as core credit
Grades 10-12 counts as elective

AP World History focuses on developing students' abilities to think conceptually about world history from approximately 8000 BCE to the present and apply historical thinking skills as they learn about the past. Five themes of equal importance — focusing on the environment, cultures, state-building, economic systems, and social structures — provide areas of historical inquiry for investigation throughout the course. AP World History encompasses the history of the five major geographical regions of the globe: Africa, the Americas, Asia, Europe, and Oceania, with special focus on historical developments and processes that cross multiple regions.

Students who take AP classes will take the associated AP exam at the end of the course. The AP exam cost is currently $96 per exam (subject to change per College Board) and students are expected to take the exam for each AP course in which they are enrolled.

U S History I (04102G1000)

Year-long / 1 credit
Grade 10

U S History to 1877 is the required study of history for the tenth grade. This course involves the study of the earliest peoples and their progress through the creation of Colonial America, the Civil War, and Reconstruction. The geography, economics, government, and literature of this time frame will be stressed using a chronological survey of major issues, movements, people, and events in Alabama as well as United States history.

Advanced U S History I (04102E1000)

Year-long / 1 credit
Grade 10

Recommended Prerequisite: Teacher recommendation and good academic standing in Advanced or A P World History.

Advanced U S History I and AP U S History is a two-year program which covers the first half of the AP U S History exam. This is a college level course designed to provide students with the analytical skills and factual knowledge necessary to deal critically with events and themes in United States history. Students will learn to assess historical documents, weigh evidence, analyze interpretations of events, and write scholarly analyses of historical information. The College Board provides the standards for Advanced U S History 10. Well-developed writing and reading comprehension skills are necessary for success. Students will take the AP U S History exam at the end of their Junior year, and a score of 3 or better on the AP exam may earn college credit.

U S History II (04103G1000)

Year-long / 1 credit
Grade 11

U S History 1877 to Present is the required study of history for the eleventh grade. This course focuses on critical issues and events that encompass historic, geographic, economic, and political literacy. The 20th century is examined through a variety of critical thinking and writing exercises. Relevant Alabama history and world geography are incorporated in the course.

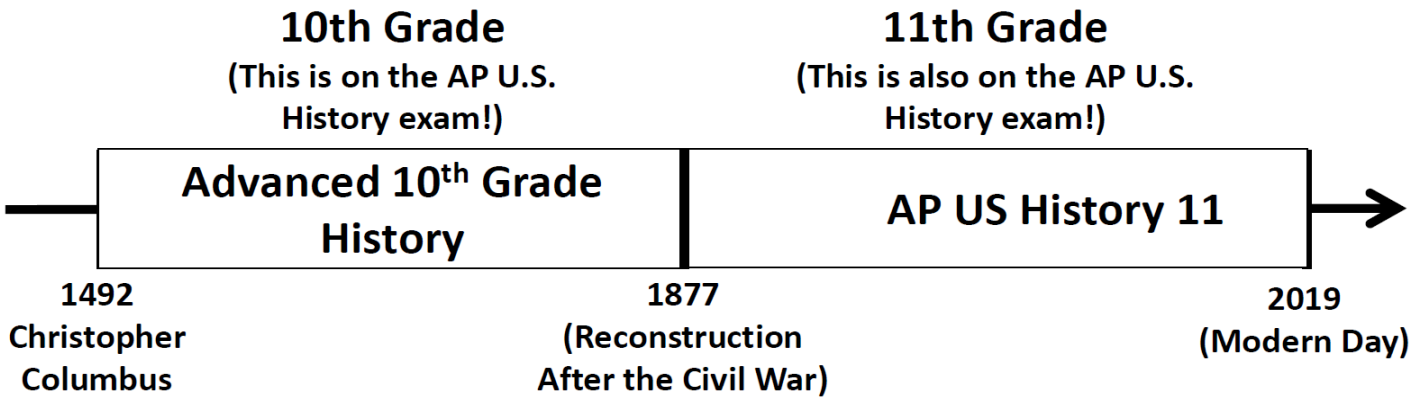
AP U S History (04104E1000)

Year-long / 1 credit
Grade 11

Recommended Prerequisites: Successful completion of Advanced US History I and a teacher recommendation from an Advanced History I teacher.

AP U S History is a two-year program. The first part is taken in grade 10 and covers 1492-1877; the second part is taken in grade 11 and covers 1877 to the present. This is a college level course designed to provide students with the analytical skills and factual knowledge necessary to deal critically with events and themes in United States history. Students will learn to assess historical documents, weigh evidence, analyze interpretations of events, and write scholarly analyses of historical information. Well-developed writing and reading comprehension skills are necessary for success. Students will take the AP U S History exam at the end of their junior year, and a score of 3 or better on the AP exam may earn college credit.

Students who take AP classes will take the associated AP exam at the end of the course. The AP exam cost is currently $96 per exam (subject to change per College Board) and students are expected to take the exam for each AP course in which they are enrolled.



Government/Career Prep B (04151G0500) — **Semester / .5 credit**
Economics (04201G0500) — **Semester / .5 credit**
Paired together in schedule — **Grade 12**

American Government and Economics are required of all twelfth-grade students. Each course is one semester in length.
The American Government course is oriented towards developing students who can participate effectively in civic life in America. Towards this end, students will examine a variety of topics to include fundamental constitutional principles; the organization of the national government; the rights and responsibilities of citizenship; the policy-making process; political parties and elections, and civil liberties. Students will be asked to apply their understanding of government concepts to the analysis of contemporary foreign and domestic issues. Throughout the course, students will work to develop the reading and writing skills emphasized in the Career and College Ready Standards.
Economics incorporates both micro and macroeconomic principles and theory. Emphasis is given to the dynamic forces at work in the economic system of the United States. Through their study of American economic structure, students will acquire an appreciation of the opportunities provided by the free enterprise system. A broad conceptual approach to the study of economics is mandated for this course.
Civics exam requirement effective 2018-2019 school year. Students are required to earn a passing score of 60 or higher on the Civics Exam, this exam is generally administered by US Government instructor in Government course.

AP Government & Politics (04157E1000) — **.25 credit posted each semester for total of .50**
AP Economics (04202E1000) — **.25 credit posted each semester for total of .50**
Paired together in schedule — **Grade 12**
Recommended Prerequisite: Successful completion of AP U S History

American Government and Economics are required of all twelfth-grade students. Each course is one semester in length. The course content is established by the College Board and students may earn college credit based on an AP exam taken at the end of the year. Score requirements for credit are determined by individual colleges/universities. Students and parents should be prepared for the rigor of the Advanced Placement curriculum; an extensive amount of outside reading and writing is required for each of these courses. These courses are thoughts simultaneously throughout the entire school year resulting in a total of .50 credit for each course.

AP American Government & Politics is designed to provide students with an in-depth understanding of the American political system with emphasis on current government policies and issues. Students are expected to analyze information and apply it to current issues and situations.

AP Economics places emphasis on macroeconomic principles and theory and the application of these in a classroom situation. Critical and analytical thinking skills are emphasized.

Students who take AP classes will take the associated AP exam at the end of the course. The AP exam cost is currently $96 per exam (subject to change per College Board) and students are expected to take the exam for each AP course in which they are enrolled.

Career Preparedness - Required Elective

Career Preparedness – Full Year (22153G1000) **1 Credit**
No fee required **Grades 10-12**

This state required course prepares students with content knowledge and skills in the areas of career development and academic planning, computer skill application, and financial literacy. Also, this course is designed to meet the required 20-hour online experience.

Career Preparedness B – Semester Only (22153G0522) **Semester / .5 credit**
Suggested to pair this with Health course during sophomore year **Grades 10-12**
No fee required

This state required course prepares students with content knowledge and skills in the areas of career development and academic planning, computer skill application, and financial literacy. Also, this course is designed to meet the required 20-hour online experience.

Zero Period Career Preparedness – Full Course (22153G1000) **Year-long/1 credit**
No fee required **Grades 10-12**

This state required course prepares students with content knowledge and skills in the areas of career development and academic planning, computer skill application, and financial literacy. Also, this course is designed to meet the required 20-hour online experience.

Zero Period Career Preparedness B – Semester (22153G0522) **Semester / .5 credit**
No fee required **Grades 10-12**

The course prepares students with knowledge and skills in the areas of technology application and financial literacy. The prerequisite for this course is Career Preparedness-A. The required 20-hour online experience can be met by successful completion of both Career Preparedness A and Career Preparedness B.

Summer School Career Preparedness A – Semester **Semester /.5 credit**
No fee required **Grades 9-12**

This state required course prepares students with content knowledge and skills in the areas of career development and academic planning, computer skill application, and financial literacy. Also, this course is designed to meet the required 20-hour online experience.

Summer School Career Preparedness B - Semester **Semester / .5 Credit**
No fee required **Grades 9-12**

The course prepares students with knowledge and skills in the areas of technology application and financial literacy. The prerequisite for this course is Career Preparedness-A. The required 20-hour online experience can be met by successful completion of both Career Preparedness A and Career Preparedness B.

Summer school Credit Advancement courses may be available during summer school, please check HTHS website for updates.

PHYSICAL EDUCATION, HEALTH, AND DRIVER EDUCATION

Note: No more than one P.E. course may be taken in a school year. Only one P.E. course per year may be counted towards AHSAA (athletic) eligibility. Every course listed in this section counts as a P.E. course except Health and Driver Education.

Adventure and Cooperative Activities (08004G1000) **Year-long/1 Credit**
Grades 9 – 12

Fee Required

Adventure and Cooperative Activities is an elective class that will allow students to progress through an experience-based program that emphasizes outdoor physical activity and cooperative games. This course will combine moderate physical activity and classroom instruction to help students learn to enjoy nature and respect our environment.

LIFE SPORTS: Individual, Dual, and Team (08003G10LF) **Year-long/1 Credit**
Prerequisite: Beginning Kinesiology **Grades 10 – 12**
Fee Required

Life Sports is an elective course that gives students basic knowledge of individual, dual, and team sports. Students will progressively learn skills and game strategies for each sport, as well as historical background and terminology. These sports/activities promote good health and wellness, as well as encourage students to participate in physical activity for life.

Beginning Kinesiology (08017G10aa) **Year-long/1 Credit**
Locker rental fee required **Grades 9 – 12**

Beginning Kinesiology is the physical education course required for graduation. It is a stand-alone course which encompasses the basic concepts of athletics and fitness; it also introduces students to the basic physiological, psychological, sociological, and mechanical principles of human movement. Students will be empowered to make choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime. It is highly recommended that students take Beginning Kinesiology in Grade 9. It is the prerequisite for all physical education elective courses.

Beginning Kinesiology Online (08017G10OL) **Year-long/1 Credit**
Locker rental fee required **Grades 9 – 12**

Beginning Kinesiology is the physical education course required for graduation. It is a stand-alone course which encompasses the basic concepts of athletics and fitness; it also introduces students to the basic physiological, psychological, sociological, and mechanical principles of human movement. Students will be empowered to make choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime. It is highly recommended that students take Beginning Kinesiology in Grade 9. It is the prerequisite for all physical education elective courses. This course must be taken with non-sanctioned high school sports.

Weight Training **Year-long / 1 credit**
Weight Training Baseball (08005G10BB*)* **Grades 10-12**
Weight Training Basketball Boys (08005G10BK*)*
Weight Training Basketball Girls (08005G10GB*)*
Weight Training Football (08005G10FB*)*
Weight Training Softball (05G10SB800*)*

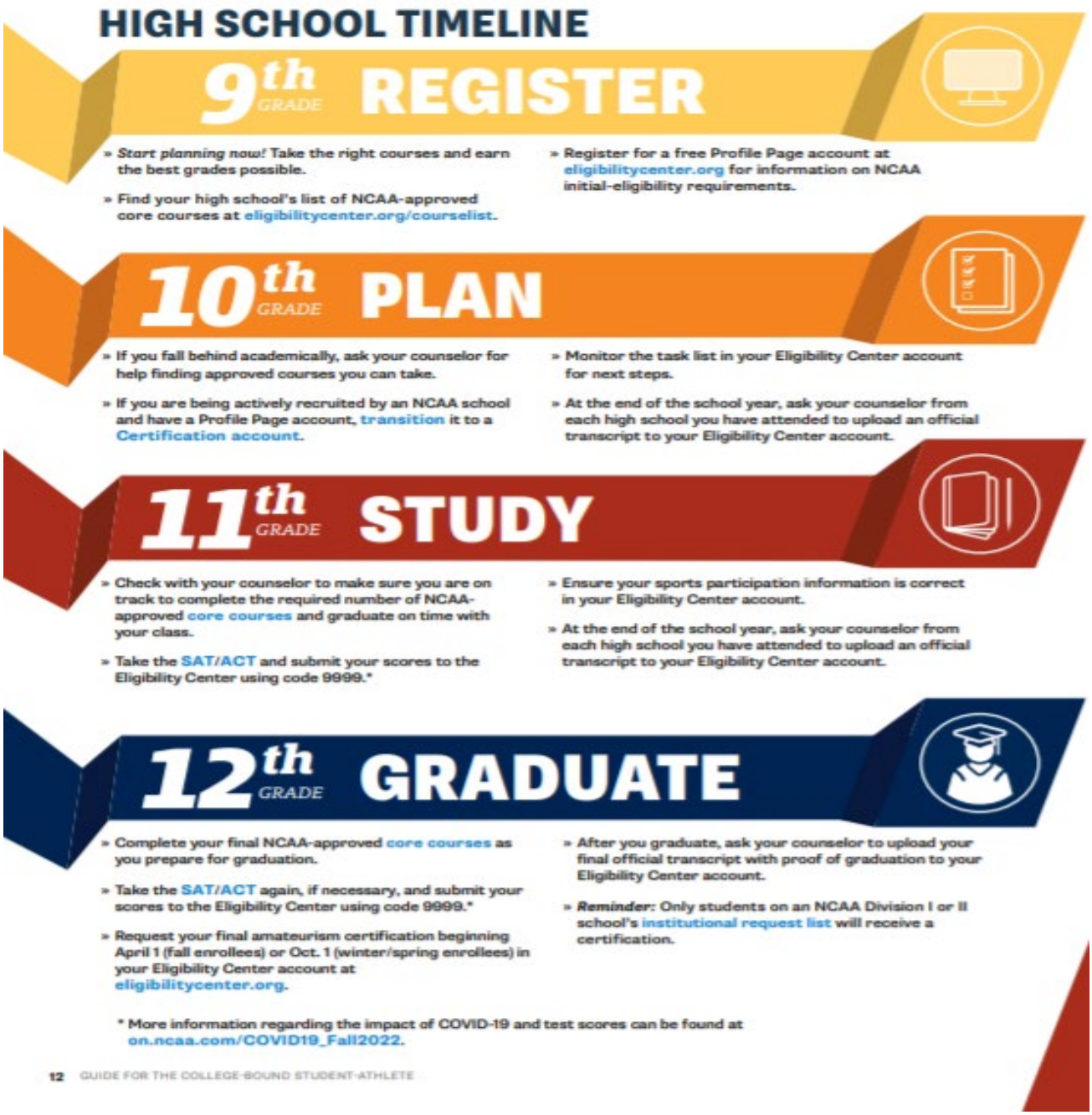
Prerequisite: LIFE Course
Fee required

This class is designed for students who would like to learn the proper techniques and exercise routines to attain their physical goals. This class would also use different conditioning techniques to help achieve a well-balanced physical workout. Class will be conducted using the HTHS weight room and the Fieldhouse weight room. The state physical fitness test is part of this course's requirements.

NCAA INFORMATION FOR PROSPECTIVE COLLEGE STUDENT-ATHLETES

NCAA Contact information for HTHS:
Ms. Heather Winship
Heather.winship@trussvillcityschools.com
(205) 228-4019

All prospective student-athletes intending to enroll in an NCAA Division I or II institution must register with the NCAA Eligibility Center. Please visit www.ncaa.org for detailed information and instructions. All courses approved by the NCAA as core courses are designated with the following symbol.
Student athletes must earn at least 2.3 core GPA to be eligible.



Athletic Programs

Students have an opportunity to try out for the following organized sports programs: football, baseball, basketball, volleyball, softball, soccer, tennis, wrestling, cross country, track, cheerleading, swimming, and golf. Student must obtain the coach's signature on the course selection card.

Course Name	Course #	Length/Credit
Baseball ***Prerequisite: Coach approval***	08013G10	Year-long / 1 credit
Basketball ***Prerequisite: Coach approval***	08013G10BB	Year-long / 1 credit
Cheerleader ***Prerequisite: Coach approval***	08006G10	Year-long / 1 credit
Track ***Prerequisite: Coach approval***	08013G10T2	Year-long / 1 credit
Cross Country ***Prerequisite: Coach approval***	08013G10C2	Year-long / 1 credit
Football ***Prerequisite: Coach approval***	08013G10F2	Year-long / 1 credit
Golf ***Prerequisite: Coach approval***	08013G10B6	Year-long / 1 credit
Soccer ***Prerequisite: Coach approval***	08013G10S2	Year-long / 1 credit
Softball ***Prerequisite: Coach approval***	08013G10G6	Year-long / 1 credit
Tennis ***Prerequisite: Coach approval***	08011G10	Year-long/ 1 credit
Volleyball ***Prerequisite: Coach approval***	08013G10V2	
Wrestling ***Prerequisite: Coach approval***	08013G1012	Year-long / 1 credit
Lacrosse (PE Elective)* ***Prerequisite: Coach approval***	22994X10S5	Year-long / 1 credit
Mountain Biking (PE Elective)* ***Prerequisite: Coach approval***	22994X10SR	Year-long / 1 credit
Bowling ***Prerequisite: Coach approval***	08015G10	Year-long / 1 credit
Swimming ***Prerequisite: Coach approval***	08010G10	Year-long / 1 credit

***Does not meet graduation requirement for Life PE.**

Health Education

HTHS offers students three options for taking the required semester-long Health course: regular school day class, zero period class, and a summer class. If students are taking Health and Driver Education during the regular school day class or zero period, the courses will be paired together. The zero period and summer classes are offered primarily for students who may have difficulty making room in their schedules for all the courses they need/desire to take during their sophomore year. This is a web-based option, but students may need to attend sessions on-campus for their assessments. Please read the Driver Education course description for more information about permit requirements and age limits, to determine which semester you will ne4ed to take Health & Driver Education.

Health (08051G05S1) **Semester / .5 credit**
Fee required **Grades 10-12**

Note: This course is one semester in length and is worth one-half credit. Health is a requirement for graduation and is generally taken in the tenth grade.

Health provides adolescents with the knowledge, skills, and understandings that will enable them to make healthier decisions throughout life. Topics include: mental health and violence prevention; drug, tobacco, and alcohol abuse; safety, first aid and CPR; chronic diseases; STD's, HIV and AIDS; nutrition, physical fitness; family issues; technology's role in health; and global environmental issues. Students also will learn to access health information, products, and services for current and future health needs.

Zero Period Health (08051G05ZP) **Semester / .5 credit**
Fee required **Grades 10-12**

Course work may be completed at home; however, tests must be taken on campus during Zero Period.
Required 3.0 GPA.

Summer School Health (Register through SS packet in spring) **Semester / .5 credit**
Fee required **Grades 10-12**

All tests may need to be taken on campus.
The summer school Health course is an online course with independent student work. The same topics that are covered during the regular school year course will be covered *during the summer course. Other topics include: developing health skills,* mental health and violence prevention; drug, tobacco and alcohol abuse; STD's, HIV and Aids; nutrition and physical fitness; family issues; technology's role in health; global environmental issues. Specific dates and times TBA. Visit HTHS website for updates.

Driver Education

Link to additional Driver Education information:
https://sites.google.com/trussvillecityschools.org/hths-driver-ed/home

Driver Education is offered as an elective course primarily for the tenth-grade students who are fifteen years of age or older. An Alabama Learner License is REQUIRED to be registered for this course. If students are taking Health and Driver Education during the regular school day, the courses will be paired together. Some students may not take the Driver and traffic Safety Education course during their sophomore year due to scheduling difficulties. Students are encouraged to schedule the course during their final two years of high school. (Alabama Department of Education)

HTHS offers students three options for taking the semester-long Driver Education course: regular school day class, zero period class, and a summer class. Summer school and zero period is offered primarily for students who may have difficulty making room in their schedules for all the courses they need/desire to take during their sophomore year.

****Freshmen are NOT eligible to take Driver Education regardless of age.***

Driver Education for Students — **Semester / .5 credit, Grades 10-12**

(08152G05R1) 1st semester (turn 16 before February 13, 2023)
(08152G05R2) 2nd semester (turn 16 before June 1, 2023)
It is recommended students have 30 hours of driving experience before enrolling in class. Fee required
Note: This course is one semester in length and is worth one-half credit. Fee required.

Driver Education provides the student with basic skills that will make him/her a safer driver. Classroom work and actual on-the-road driving comprise the two-phase program of this course.

***Students must show proof of a driver's permit or license in order to enroll in the course.**
****Driver License: Students must be 16 and have held their learner license (Permit) for 180 days to be eligible to receive their license.**

Zero Period Driver's Education (08152G05Z1) — **Semester / .5 credit**
Fee required — **Grades 10-12**

1st semester (turn 16 before February 12, 2023)
2nd semester (turn 16 before June 1, 2023)

It is recommended students have 30 hours of driving experience before enrolling in class.
Note: This course is one semester in length and is worth one-half credit. Fee required.

***Students must show proof of a driver's permit or license in order to enroll in the course.**
****Driver License: Students must be 16 and have held their learner license (Permit) for 180 days to be eligible to receive their license.**

Driver Education instructors will hold a meeting to discuss course information. Once course work is complete, students will be assigned two to three driving times to complete their road test.

Summer School Driver Education (Register through SS packet in spring) — **Semester/.5 credit**
Fee required — **Grade 10**

Summer School (turn 16 before September 15, 2023)

It is recommended students have 30 hours of driving experience before enrolling in class.
Requirements: Coach Carlile and Coach Bromley will have a mandatory meeting with Registered Summer School Driver's Education Students late spring.

***Students must show proof of a driver's permit or license in order to enroll in the course.**

****Driver License: Students must be 16 and have held their learner license (Permit) for 180 days to be eligible to receive their license.**

FINE ARTS

Visual Arts I (05154G1001) **Year-long / 1 credit**
Fee required **Grades 9 – 12**

This is a beginner art course that teaches basic illustration skills and compositional development through the use of various drawing and painting mediums. Additionally, students will actively learn how to judge and improve on their own artistic skills as they progress through a series of 26 projects. This course is recommended for students that enjoy creative thinking!

Visual Arts II (05154G1002) **Year-long / 1 credit**
Prerequisite: Art I and teacher approval **Grades 10 –12**
Fee required.

This course is geared toward students that enjoyed their Art 1 experience and would like to pursue a stronger foundation within the visual arts. Students are encouraged to begin developing an informal portfolio from the roughly 26 projects focused on life-like illustration and sculpture. This course is further enriched with independent projects, field trips, and eligibility for the National Arts Honor Society. This course is suitable for students that enjoyed their art one experience!

Visual Arts III (05154G1003) **Year-long / 1 credit**
Prerequisite: 2 years of any high school Art course **Grades 11 –12**
Fee required

Art III is for students seeking a fun studio art experience! Students will develop a formal portfolio throughout the year, improving their skill level through guided evaluations, research and self-expression. Student projects respond to personal experiences and express ideas using a variety of traditional and contemporary media while effectively applying the elements of art and principles of design to create original works of art. This studio class is perfect for anyone wanting to work independently on studio art projects.

Visual Arts, 2D Design 1 (05195G1021) **Year-long / 1 credit**
Prerequisite: Teacher Recommended Art I **Grades 10 –12**
Fee Required

This course explores compositional development using the elements of art and principles of design. Shifting the focus away from photographic drawing skills taught in Art 2, this course uses a cartoon like approach to create expressive artworks that convey a narrative. Highlight projects include cut paper art, product design, and planar portraiture. This course is suitable for students wanting to take their artistic skills to the next level!

Ceramics (05999C1006) **Year-long / 1 credit**
Prerequisite: Art I and Teacher Approval **Grades 10-12**
Fee required $100.00

Art 1 And Teacher Approval. This intermediate level, one credit course explores the medium of wheel thrown ceramics. Through exploration and experimentation, this course provides students with a more in-depth foundation in the ceramic studio processes, art criticism, aesthetics, and art history. Students will respond to personal experiences and express ideas using a variety of traditional and contemporary ceramic process while learning about the elements of art and principles of design. Safe practices and proper use of tools, equipment and materials are emphasized.

Digital Photography I (**05167G10D1**) Year-long / 1 credit
Prerequisite: Teacher Recommended Art I **Grades 10-12**
Fee Required & Digital Camera Required

This is a beginning level introductory course for students who are genuinely interested in and passionate about photography to the technical and artistic aspects of digital photography. Students will be challenged through project-based assignments that will require some outside of class work. Students will in addition learn about the history of photography and photographers. They will learn to create aesthetically strong photographs and how photography communicates ideas and allows for self-expression. We will work frequently in a computer lab in Adobe Photoshop, and will briefly touch on InDesign and Illustrator as well. A digital camera is required to take the class, but no prior experience is required.

AP Studio Art Drawing (05172E1000) **Year-long / 1 credit double-period**
Recommended Prerequisite: Art I, II, 2D or 3D Design **Grade 12**
Fee required.

College-level advanced course approved by the College Board Advanced Placement (AP) Program for art; portfolio production; demonstrate mastery of drawing in concept, composition, and execution; develop a body of work investigating a visual idea in drawing; variety of concepts and approaches in drawing; documentation

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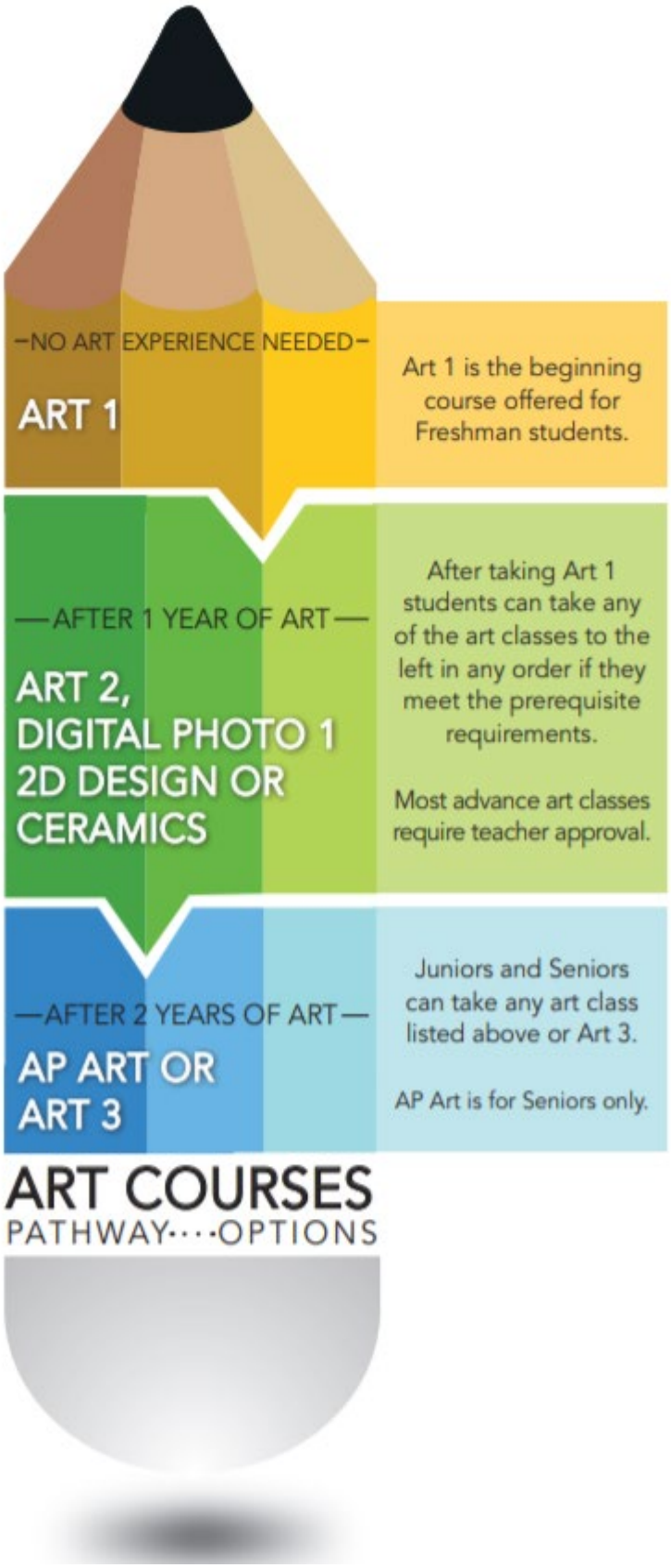
AP Studio Art Two-Dimensional Design (05195G1021) **Year-long / 1 credit double-period**
Recommended Prerequisite: Art I, II, 2D or 3D Design **Grade 12**
Fee required.

College-level advanced course approved by the College Board Advanced Placement (AP) Program for art; portfolio production; demonstrate mastery of design in concept, composition, and execution; develop a body of work investigating a visual idea in 2-D design; variety of concepts and approach in 2-D design; documentation.

AP Studio Art Three-Dimensional Design (05175E10) **Year-long / 1 credit double-period**
Recommended Prerequisite: Art I, II, 2D or 3D Design **Grade 12**
Fee required.

College-level advanced course approved by the College Board Advanced Placement (AP) Program for art; portfolio production; demonstrate mastery of design in concept, composition, and execution; develop a body of work investigating a visual idea in 3-D design; variety of concepts and approach in 3-D design; documentation.


—NO ART EXPERIENCE NEEDED—
ART 1
Art 1 is the beginning course offered for Freshman students.
—AFTER 1 YEAR OF ART—
ART 2,
DIGITAL PHOTO 1
2D DESIGN OR
CERAMICS
After taking Art 1 students can take any of the art classes to the left in any order if they meet the prerequisite requirements.
Most advance art classes require teacher approval.
—AFTER 2 YEARS OF ART—
AP ART OR
ART 3
Juniors and Seniors can take any art class listed above or Art 3.
AP Art is for Seniors only.
ART COURSES
PATHWAY····OPTIONS

CHORAL

Mixed Chorus I (05110G10FR) Year I **Year-long / 1 credit**
(05110G10SO) Year II **Grades 9 - 12**
(05110G10JR) Year III
(05110G10SR) Year IV
Fee required.

The primary focus in this choir is the continuous development of the singing voice and concentration on fundamental musical skills. Students will be taught to read music. This is a performance-based elective and requires purchasing a uniform and three performances during the year. If you have a desire to improve your singing voice, enjoy performing in a group, and have a positive attitude and a good work ethic, you will be successful in this course.

Women's Chorus I (05111G10FR) Year 1 **Year-long / 1 credit**
(05111G10SO) Year II **Grades 9 - 12**
(05111G10JR) Year III
(05111G10SR) Year IV

Fee required. Required purchase of a uniform.
Prerequisite: Choir Director's audition and recommendation required. (Can be HTMS Choir Director's recommendation for Freshmen)

Women's Chorus is a group of young ladies who will be challenged to rehearse and perform quality choral music in three parts (Soprano I, Soprano II, and Alto) There will be daily emphasis on sight-singing as well. There will be several performance opportunities including participation in the Alabama Vocal Association's State Choral Assessment

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Chamber Chorus I (05111G1001) Year I **Year-long / 1 credit**
(05111G1002) Year II **Grades 9 - 12**
(05111G1003) Year III
(05111G1004) Year IV
Fee required.
Interview/Audition with Choral Director and Director's signature required.

In Chamber Choir, students use skills developed in Mixed Choir and take them to a higher level. Repertoire is more advanced and challenging. This is a performance-based elective and requires purchasing a uniform and many performances during the year. Some travel, competition, and after-school practice will be required. Students who have not taken Choir previously at HTHS need to see Mr. Gillespie for an interview/audition.

BAND

Concert Band (05102G10FR) Year I **Year-long / 1 credit**
(05102G10SO) Year II **Grades 9-12**
(05102G10JR) Year III
(05102G10SR) Year IV
Selection is based on audition and band director's approval.
Fee required.

Concert Band provides the students the opportunity to develop musical understanding and playing skills and to use these skills in appropriate performance situations. Course content includes continued reinforcement of all basic fundamentals learned at earlier levels with intensified emphasis on technical and musical expression through the concert band experience containing the full spectrum of available literature. Solo playing, ensemble playing and individualized training are continued.

Symphonic Band (05103G1009) Year I **Semester / .5 credit**
(05103G1010) Year II **Grades 9-12**
(05103G1011) Year III
(05103G1012) Year IV
Selection is based on audition and band director's approval.
Fee required.

Symphonic provides the students the opportunity to develop musical understanding, marching fundamentals and playing skills and to use these skills in appropriate performance situations. Course content includes continued reinforcement of all basic fundamentals learned at earlier levels with intensified emphasis on technical and musical expression through the marching band experience. Marching fundamentals are taught and incorporated into field show presentations.

Wind Ensemble (05109G1001) Year I **Year-long/ 1 credit**
(05109G1002) Year II **Grades 9-12**
(05109G1003) Year III
(05109G1004) Year IV
Selection is based on audition and band director's approval.
Fee required.

Wind Ensemble provides students the opportunity to develop musical understanding and playing skills and to use these skills in appropriate performance situations. Course content includes continued reinforcement of all basic fundamentals learned at earlier levels with intensified emphasis on technical and musical expression through the wind ensemble experience containing the full spectrum of available literature. Solo playing, ensemble playing and individualized training are continued.

Jazz Ensemble (05105G10FR) Year I **Year-long / 1 credit**
(05105G10SO) Year II **Grades 9-12**
(05105G10JR) Year III
(05105G10SR) Year IV
Selection is determined by audition with the band director.
Fee required.

This course provides the opportunity for students to study jazz music through rehearsing and performing with a group. Course content includes jazz articulation and interpretation, improvisation, various jazz styles, rehearsal and performance of jazz arrangements, and listening. Students not in the band program who show proficiency in bass guitar, electric guitar, or piano may audition for this group. This course may be repeated for credit.

Marching Band – Auxiliary (05103G10FR) Year I **Year-long / 1 credit**
(05103G10SO) Year II **Grades 9-12**
(05103G10JR) Year III
(05103G10SR) Year IV
Selection is made through open tryouts held each spring for auxiliary positions in the next marching season.
Fee required.

Students registering for this course must have been selected as a member of the HTHS Color Guard or the HTHS High-steppers. *All students selected for HTHS Color Guard or HTHS High-steppers must register for this course.* This course will be used to teach and refine all aspects of color guard and dance line (High-steppers), including flag routines, dance routines, and physical fitness. *Marching Band Auxiliary may be taken along with the Online Life PE Course to satisfy the physical education requirement for graduation.*

Band Lab (05149G10L1) Year I **Year-long/ 1 credit**
(05149G10L2) Year II
(05149G10L3) Year III
(05149G10L4) Year IV

This course is open to any member of the Hewitt-Trussville High School Band Program. Band lab provides an opportunity for students to have more individualized practice time during the school day. A band director is available for one on one instruction during each band lab. Students can receive individual help with all-state tryouts, scholarship auditions, music from their band class, or any individual help needed to develop skills essential to becoming a better musician.

Band Lab Semester (05149G10L5) Year I **Semester/ .50**
(05149G10L6) Year II
(05149G10L7) Year III
(05149G10L8) Year IV

This course is open to any member of the Hewitt-Trussville High School Band Program. Band lab provides an opportunity for students to have more individualized practice time during the school day. A band director is available for one on one instruction during each band lab. Students can receive individual help with all-state tryouts, scholarship auditions, music from their band class, or any individual help needed to develop skills essential to becoming a better musician.

THEATRE

Theatre I (05052G1001) **Year-long / 1 credit**
Fee required **Grades 9-12**

Theatre I is a one credit course introducing students to the art of theatre, methods of acting, eras of theatre history and fundamentals of technical theatre. Students will begin to develop the basic vocal and physical work necessary for acting. Students learn through creative, hands-on projects as well as individual and group activities. Class activities include improvisation, movement, monologues, scene work, pantomime, script analysis, character development and theatrical design. Students are expected to demonstrate what they have learned in a variety of ways including performing their work in class. Students are encouraged to attend or participate in HTHS theatre productions. Students will be invited to enter state theatre competitions such as the Alabama Trumbauer Theatre Festival and the State Thespian Festival.

Theatre II (Acting/Directing) (05052G1002) **Year-long / 1 credit**
Fee Required **Grades 10-12**
Prerequisite: Theatre I

This one credit course continues the study of theatre. Students will begin to figure out their "type" and build a book of solo, duet, and group scenes that fit that type. Students will explore the process of writing monologues, scenes, and plays. Students will further explore the various techniques and methods in acting on how to develop a character. Students will learn methods of directing and put those methods to use by directing 3 scenes per semester as well as a 10-minute play. Students will be encouraged to attend or participate in HTHS musical theatre productions and will be invited to enter state theater competitions such as the Alabama Trumbauer Theatre Festival and the State Thespian Festival.

Acting Technique I (Show Production) (05999C1034) **Year-long/1 credit**
Prerequisite: Approval of Ms.Lemmons *Fee Required* **Grades 10-12**

This production driven course will consist of working on all the elements that go into producing our shows for the year. Students will be working on blocking, choreography, lighting, sound, costumes, props, sets, fly system, publicity, stage management, and stage hands. All students will be expected to serve as a performer or tech crew member for all HTHS theatre productions.

Acting Technique II (Show Production II) (05053G1002) **Year-long / 1 credit**
Fee Required **Grades 10-12**
Prerequisite: Approval of Ms. Lemmons

This advanced production driven course will consist of working on all the elements that go into producing our shows for the year. Students will be working on blocking, choreography, lighting, sound, costumes, props, sets, fly system, publicity, stage management, and stage hands. All students will be expected to serve as a performer or tech crew member for all HTHS theatre productions.

Musical Theatre I (Acting and Dancing) (05060G1001) **Year-long /1 credit**
Fee Required **Grades 10-12**
Prerequisite*:* Approval of Ms. Lemmons

Learn what it takes to get a standing ovation half way through your big solo. Here's a hint: it'll take more than perfect pitch! Students will get acting tools to examine music and lyrics as a way to strengthen their musical storytelling.

In this class you will focus on basic, Broadway-style dance steps. Classes incorporate the style of dance one would typically see on a Broadway stage. This form of dancing emphasizes learning performance skills such as connecting with the audience and facial expressions.

FOREIGN LANGUAGES
FRENCH, LATIN, AND SPANISH

While Foreign Languages are not a graduation requirement, depending on your student's choice of college/degree going forward may require your students to have completed 1-2 years of a high school Foreign Language. You should research your student's preferred college/degree to make sure all course requirements are met for admission.

French I (24102G10aa) **Year-long / 1 credit**
Recommended Prerequisite: At least a C average in the previous year's Math & English courses **Grades 9-12**
Fee required.

This course is an introduction to the French language and francophone culture. Exposure to the French language is accomplished through stories, both oral and written, and other techniques in order to provide input in mainly the present tense that is comprehensible to the students at their current level of development. Various aspects of francophone culture will be addressed including where French is spoken in the world and geographical and cultural snapshots of these places. Certain indispensable vocabulary, such as numbers and family member names will be taught. Upon completion of Level I, a student's proficiency level may range from Novice Mid to Novice High.

French II (24103G10aa) **Year-long / 1 credit**
Recommended Prerequisite: Teacher approval **Grades 9-12**
Fee required.

This course is a continuation of French 1. Exposure to the French language and francophone culture is continued using comprehensible input through stories and other means. The present tense will be reviewed, but other tenses will be explored with an emphasis on the past tense. Some explicit grammar instruction will also be included on the past tense. More vocabulary development will also be emphasized for greater overall reading and aural comprehension. To prepare students for the AP Exam, there will be a specific focus on speaking and writing in French as compared to the regular class. The students will be asked to be able to do various tasks in the language, for example: tell what they did over the summer or tell or write an original story modeled after the ones in class. There will also be more novels assigned for the students to read compared to the regular class, possibly including a summer reading for those moving on to French 3. Upon completion of Level II Advanced, a student's proficiency level may range from Novice High to Intermediate Low.

Advanced French II (24103G10AD) **Year-long / 1 credit**
Recommended Prerequisite: Teacher approval **Grades 9-12**
Fee required.

This course is a continuation of French 1. Exposure to the French language and francophone culture is continued using comprehensible input through stories and other means. The present tense will be reviewed, but other tenses will be explored with an emphasis on the past tense. Some explicit grammar instruction will also be included on the past tense. More vocabulary development will also be emphasized for greater overall reading and aural comprehension. To prepare students for the AP Exam, there will be a specific focus on speaking and writing in French as compared to the regular class. The students will be asked to be able to do various tasks in the language, for example: tell what they did over the summer or tell or write an original story modeled after the ones in class. There will also be more novels assigned for the students to read compared to the regular class, possibly including a summer reading for those moving on to French 3. Upon completion of Level II Advanced, a student's proficiency level may range from Novice High to Intermediate Low.

Advanced French III (24104G10AD)  **Year-long / 1 credit**
Recommended Prerequisite: Teacher approval **Grades 11-12**
Fee required.

This course emphasizes oral expression, aural comprehension, accumulation of extensive vocabulary, and idiomatic expressions. Exposure to the French language and francophone culture is continued using comprehensible input through stories and other means. This will serve as an introduction to French literature. The present and past tense will be reviewed, but other tenses, like the future, will be explored with an emphasis on the literary past tense. Some explicit grammar instruction will also be included on the past tense. More vocabulary development will also be emphasized for greater overall reading and aural comprehension. To prepare students for the AP Exam, there will be a specific focus on speaking and writing in French as compared to the regular class. The students will be asked to be able to do various tasks in the language, for example: tell what they did over the summer or tell or write an original story modeled after the ones in class. There will also be more novels assigned for the students to read compared to the regular class, possibly including a summer reading for those moving on to French 4. Upon completion of Level III Advanced, a student's proficiency level may range from Intermediate Low to Intermediate Mid.

Advanced French IV (24105G10AD)  **Year-long / 1 credit**
Recommended Prerequisite: Teacher approval **Grades 12**
Fee required.

Level IV world languages content standards require students to master complex features of the language and to comprehend more abstract concepts. Students are introduced to a wide variety of texts that employ a greater variety of language as well as cultural references and figures of speech. They are able to understand materials presented on a variety of topics related to contemporary events and issues in the target cultures.
Students in advanced-level classes will have a different learning experience. Comprehension and proficiency will be more profound. Students will use higher level thinking skills as they explore the content, and more abstract thinking will be necessary. Assessments will be more complex and will require that the student make connections and organize thoughts more efficiently. Upon completion of Level IV Advanced, a student's proficiency level may range from Intermediate Mid to Intermediate High.

Latin I (24342G10aa)  **Year-long / 1 credit**
Prerequisite: At least a C average in the previous year's Math and English courses. **Grades 9-12**
Fee required.

Latin Level I content standards provide students the framework to begin the study of a foundational language and the culture in which it originated. Basic pronunciation, grammar, vocabulary, and culture are included. Acquiring knowledge and skills at Level I also helps students to understand the English language and to use it more effectively.

Latin II (24343G10aa)  **Year-long / 1 credit**
Prerequisite: Teacher approval **Grades 10-12**
Fee required.

In Latin Level II, students build upon what they have learned in Level I, and begin more advanced study of Roman life, history, and mythology. Level II includes the study of advanced grammar, an expansion of students' Latin vocabulary, and the reading of authentic Roman writers. As students progress from adapted to authentic texts, they deepen and expand their familiarity and knowledge of the ancient world.

Advanced Latin II (24343G10AD)
Prerequisite: Teacher approval
Fee required.

Year-long / 1 credit
Grades 10-12

In Latin Level II, students build upon what they have learned in Level I, and begin more advanced study of Roman life, history, and mythology. Level II includes the study of advanced grammar, an expansion of students' Latin vocabulary, and the reading of authentic Roman writers. As students progress from adapted to authentic texts, they deepen and expand their familiarity and knowledge of the ancient world.

Students in advanced-level classes will have a different learning experience. Comprehension and proficiency will be more profound. Students will use higher level thinking skills as they explore the content, and more abstract thinking will be necessary. Assessments will be more complex and will require that the student make connections and organize thoughts more efficiently.

Advanced Latin III (24344G10AD)
Prerequisites: Teacher approval
Fee required.

Year-long / 1 credit
Grades 10-12

Level III world languages content standards focus on continuing the development of communicative competence in the target language and on building a deeper understanding of the cultures of those who speak the language. Students are able to use basic language structures with an increased level of accuracy and recombine learned material to express their thoughts. They study more complex features of the language, progressing from concrete to abstract concepts.

Students in advanced-level classes will have a different learning experience. Comprehension and proficiency will be more profound. Students will use higher level thinking skills as they explore the content, and more abstract thinking will be necessary. Assessments will be more complex and will require that the student make connections and organize thoughts more efficiently.

AP Latin (24355E10)
Prerequisites: Teacher Approval &
Completion of summer reading list.
Fee required

Year-long / 1 credit
Grades 11-12

The AP Latin course focuses on the in-depth study of selections from two of the greatest works in Latin literature: Vergil's Aeneid and Caesar's Gallic War. The course requires students to prepare and translate the readings and place these texts in a meaningful context, which helps develop critical, historical, and literary sensitivities. Throughout the course, students consider themes in the context of ancient literature and bring these works to life through classroom discussions, debates, and presentations. Additional English readings from both of these works help place the Latin readings in a significant context.

Course Expectations and Assessments:
Outside reading, books, articles, and texts
Mastery of a large body of historical knowledge, especially relating to Vergil's *Aeneid* and Augustan Rome.

Daily translation assignments from the College Board required Latin texts. Analytical skills or evaluation such as literary devices, advanced grammatical constructions and historical interpretation.

Students who take AP classes will take the associated AP exam at the end of the course. The AP exam cost is currently $96 per exam (subject to change per College Board) and students are expected to take the exam for each AP course in which they are enrolled.

Spanish I (24052G10aa) **Year-long / 1 credit**
Prerequisite: At least a C average in the previous year's English and Math courses. **Grades 9-12**
Fee required.

Level I world languages content standards provide students the opportunity to begin the study of another language while introducing them to the study of other cultures. Basic pronunciation, vocabulary, grammar, and culture are included in the course. Acquisition of Level I knowledge and skills help students understand their own language and culture, connect the use of the target language with other disciplines, develop insight into cultures other than their own, and participate more fully in the global community. Upon completion of Level I, a student's proficiency level may range from Novice Mid to Novice High.

Spanish II (24053G10aa) **Year-long / 1 credit**
Prerequisite: Teacher approval **Grades 9-12**
Fee required.

Level II world languages content standards build upon knowledge and skills acquired in the Level I course. Content standards allow students to focus on gaining facility in handling more advanced elements of communication, broadening insights into other cultures as well as their own, and enhancing the connections they make with other disciplines, the community, and the world. Upon completion of Level II, a student's proficiency level may range from Novice High to Intermediate Low.

Advanced Spanish II (24053G10AD) **Year- long/ 1credit**
Prerequisite: Teacher approval **Grades 9-12**
Fee required.

Level II world languages content standards build upon knowledge and skills acquired in the Level I course. Content standards allow students to focus on gaining facility in handling more advanced elements of communication, broadening insights into other cultures as well as their own, and enhancing the connections they make with other disciplines, the community, and the world.

Students in advanced-level classes will have a different learning experience. Comprehension and proficiency will be more profound. Students will use higher level thinking skills as they explore the content, and more abstract thinking will be necessary. Assessments will be more complex and will require that the student make connections and organize thoughts more efficiently. Upon completion of Level II Advanced, a student's proficiency level may range from Novice High to Intermediate Low.

Advanced Spanish III (24054G10AD) **Year-long / 1 credit**
Prerequisite: Teacher approval **Grades 10-12**

Fee required.

Level III world languages content standards focus on continuing the development of communicative competence in the target language and on building a deeper understanding of the cultures of those who speak the language. Students are able to use basic language structures with an increased level of accuracy and recombine learned material to express their thoughts. They study more complex features of the language, progressing from concrete to abstract concepts.

Students in advanced-level classes will have a different learning experience. Comprehension and proficiency will be more profound. Students will use higher level thinking skills as they explore the content, and more abstract thinking will be necessary. Assessments will be more complex and will require that the student make connections and organize thoughts more efficiently. Upon completion of Level III Advanced, a student's proficiency level may range from Intermediate Low to Intermediate Mid.

Advanced Spanish IV (24055G10AD)
Prerequisite: Teacher approval
Fee required.

Year-long / 1 credit
Grades 11-12

Level IV world languages content standards require students to master complex features of the language and to comprehend more abstract concepts. Students are introduced to a wide variety of texts that employ a greater variety of language as well as cultural references and figures of speech. They are able to understand materials presented on a variety of topics related to contemporary events and issues in the target cultures. Upon completion of Level IV, a student's proficiency level may range from Intermediate Mid to Intermediate High.

Students in advanced-level classes will have a different learning experience. Comprehension and proficiency will be more profound. Students will use higher level thinking skills as they explore the content, and more abstract thinking will be necessary. Assessments will be more complex and will require that the student make connections and organize thoughts more efficiently. Upon completion of Level IV Advanced, a student's proficiency level may range from Intermediate Mid to Intermediate High.

AP Spanish Language (24064E1000)
Prerequisite: Teacher approval &
Completion of summer reading list.

Year-long/ 1 credit
Grades 11-12

Fee Required

The AP Spanish Language and Culture course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP Spanish Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. The AP Spanish Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions)

Students who take AP classes will take the associated AP exam at the end of the course. The AP exam cost is currently $96 per exam (subject to change per College Board) and students are expected to take the exam for each AP course in which they are enrolled.

Electives

Psychology (04254G1000)
Prerequisite: Sophomore or higher status.

Year-long / 1 credit
Grades 10-12

This course offers the student an opportunity to explore human behavior, to examine positive ways to interact with others, and to form healthy methods of coping with typical adolescent problems. It provides an introduction to the entire realm of psychology, including experimental, abnormal, learning, developmental, and social. Student involvement and community awareness are encouraged through field trips, guest speakers, and role-playing discussion activities in the classroom.

AP Psychology (04256E1000)

Year-long / 1 credit
Grades 10-12

AP Psychology is designed to introduce students to the scientific study of behavior and mental processes of humans and other animals. The course provides instruction in each of the following fourteen content areas: History and Approaches, Research Methods, Biological Bases of Behavior, Sensation and Perception, States of Consciousness, Learning, Cognition, Motivation and Emotion, Developmental Psychology, Personality, Testing and Individual Differences, Abnormal Psychology, Treatment of Psychological Disorders, and Social Psychology. This course includes lecture, discussion, research, guest speakers, field trips, and requires higher level thinking and advanced reading and writing skills. The course content is established by the College Board and students may earn college credit based on a student's score on an AP exam at the end of the year. Score requirements for credit are determined by individual colleges/universities

Students who take AP classes will take the associated AP exam at the end of the course. The AP exam cost is currently $96 per exam (subject to change per College Board) and students are expected to take the exam for each AP course in which they are enrolled.

Dual Enrollment General Psychology 200 (04999C1018) **ONLINE COURSES
Dual Enrollment Human Growth & Development Psychology 210 (*04999C1019*)

Semester / .5 credit
Semester / .5 credit
Grades 11-12

Prerequisites: Minimum cumulative GPA of 3.0 and have taken the ACT college entrance exam; Continued enrollment in PSY 210 requires a grade of C or higher in PSY 200.

Students registering for this course will complete six semester hours of college credit in General Psychology and Human Growth and Development through a dual enrollment agreement with Jefferson State Community College. *NOTE: There is no final exam exemption option in this course. All enrolled students must take the final exam regardless of their class standing or class average.*

General Psychology (PSY 200) is a survey course exploring the whole realm of psychology. This includes the biological bases of behavior, learning, emotion, motivation, abnormal, developmental, and personality.

Human Growth and Development (PSY 210) is a study of the physiological, social and cognitive factors that affect human behavior from conception to death.

This course is offered as an online course through Jeff State; Students complete coursework online during their assigned class period at HTHS.

Speech (01151G1011)

Year-long / 1 credit
Grades 10-12

This course will teach students basic interpersonal speaking skills as they research, write, and deliver a variety of speeches. After a study of basic public speaking, the students learn the techniques involved in both Policy and Lincoln/Douglas debate. Emphasis is placed on making a variety of types of speeches as well as debating and acting. Out-of-school competition is encouraged.

Fundamentals of Oral Communication D/E Speech 106 (11999C1003) ONLINE COURSE **Semester / .5 credit**
Prerequisites: 3.0 GPA required **Grades 11-12**
Tuition $ required

Students registering for this course may earn high school credit for Speech and will complete three semester hours of college credit in Fundamentals of Oral Communication through a dual enrollment agreement with Jefferson State Community College. Dual Enrollment Speech is designed for the student with above average abilities and study skills. Students are required to pay the college tuition for this course prior to the beginning of the semester. NOTE: There is no final exam exemption option in this course. All enrolled students must take the final exam regardless of their class standing or class average. Fundamentals of Oral Communications (SPH 106) is a performance course that includes the principles of human communication: Intrapersonal, interpersonal, and public. It surveys current communication theory and provides practical application. Successful completion of this course will earn the student the high school course credit for Speech.

This course is offered as an online course through Jeff State; Students complete coursework online during their assigned class period at HTHS.

Mass Media Journalism (11149G1000) **Year-long / 1 credit**
Prerequisites: Completed application, teacher interview & selection, limited class size **Grades 11-12**

This is a year-long course designed to develop skills in information gathering, news judgment, organization and writing. Students will learn to cover breaking news and write features for the school, the system and the community. They will learn the principles of broadcast writing and reporting. Students also will learn to shoot and edit videotape and to prepare TV news reports.

School Publications (Yearbook) (11104X10YB) **Year-long / 1 credit**
Prerequisites: Application approval required before enrolling in course. **Grades 9-12**

This is a year-long course in which students will produce the school yearbook. Students are required to sell ads and yearbooks, take pictures, design layouts using LabDesign, and write captions and articles. Basic computer skills are required. Some after school and weekend work will be required.
Yearbook Application Link:
https://tinyurl.com/3votxses

Office Assistant *(Seniors only may apply)* (22051X10OF) **Year-long / No credit**
Prerequisites: 2.5 GPA, No Class II or III disciplinary offenses, no more than 3 unexcused absences for the current school year. Completed application is required with 2 teacher signatures

Students will be required to perform office duties such as sorting mail, copying, and delivering information to classrooms. A general service-oriented attitude toward faculty and students who need assistance in the office areas is essential. Students may earn community service hours or service hours for National Honor Society.

Library Assistant *(Seniors only)* **Year-long / No credit**
Prerequisites: Counselor/Administrator approval

Students will be required to perform library duties such as checking out books to students, printing things for students, shelving books, and delivering items. A general service-oriented attitude toward faculty and students who need assistance in the library is essential. Students may earn community service hours or service hours for National Honor Society.

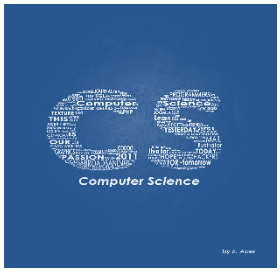
Religious Studies (23992X10RS) **Year-long / 1 Credit**
Grades 10 – 12

Students participate in an elective course in religious instruction conducted off campus by a private entity.

History through Film (04099G10HF) **Semester/.5 Credit**
Grades 10 – 12

This course will ask students to study American history through film. Historians evaluate facts by selecting, arranging, and interpreting those facts for the purpose of telling the story of an era. Students will consult various texts, collaborate with peers, and explore film appreciation while examining films as historical evidence.

Computer Science Academy



At a time when computer science affects how we work and live, The HTHS Computer Science Academy empowers students to become creators, instead of merely consumers, of the technology all around them.

The Academy's interdisciplinary courses engage students in compelling, real-world challenges. As students work together to design solutions, they learn computational thinking – not just how to code - and become better thinkers and communicators. Students take from the courses in-demand knowledge and skills they will use in high school and for the rest of their lives, on any career path they take.

Computer Science Academy Courses

PLTW-Computer Science Essentials (10013G1000) **1 math, or 1 science, or 1 elective credit**
Fee required **Grades 9-12**
Prerequisite: None

Solve problems and create value for others through innovation and creativity. Explore how innovations in computing impact and connect our world. With a gentle introduction to programming, you will learn how to put your designs into practice. Whether these are your first steps in computer science, or a continuation of your journey, Computer Science Essentials will give you confidence to succeed today and beyond.

CS Essentials introduces students to coding fundamentals through an approachable, block-based programming language where they will have early success in developing creative programs. As students sharpen their computational thinking skills, they will transition to programming environments that reinforce coding fundamentals by displaying block programming and text-based programming side-by-side. Finally, students will learn the power of text-based programming as they are introduced to the Python® programming language. The course engages students in computational thinking practices and collaboration strategies, as well as industry standard tools authentic to how computer science professionals work. Students will learn about professional opportunities in computer science and how computing can be an integral part of all careers today.

PLTW-Cybersecurity (10016G1000)
Fee Required **1 math, or 1 science, or 1 elective credit**
Prerequisite: Computer Science Essentials or AP CSP **Grades 10-12**

Cybersecurity - PLTW is a one-credit course that introduces students to the tools and concepts of cybersecurity and encourages them to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

PLTW-AP Computer Science Principles (10019E1000) **1 math, or 1 science, or 1 elective credit**
Grades*10-12

Fee required
Prerequisite: *Sophomores require teacher recommendation

Open doors in any career with computer science! Students develop creative programs, automate tasks in a variety of languages, find patterns in data, and interpret simulations. Students collaborate to create and present solutions that can improve people's lives. How will computing and connectivity transform your world?

Computer Science Principles (CSP) implements the College Board's AP CS Principles framework. Students work in teams to develop computational thinking and solve problems. The course does not aim to teach mastery of a single programming language but aims instead to develop computational thinking, to generate excitement about the field of computing, and to introduce computational tools that foster creativity. The course also aims to build students' awareness of the tremendous demand for computer specialists and for professionals in all fields who have computational skills. Each unit focuses on one or more computationally intensive career paths. The course also aims to engage students to consider issues raised by the present and future societal impact of computing.

AP Computer Science A (10157E1000)
Fee required
Prerequisite: *Students require teacher recommendation

1 math or elective credit
Grades 11-12

AP Computer Science A is equivalent to a first-semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP CSA course curriculum is compatible with many CS1 courses in colleges and universities. *For seniors who have completed Algebra II, this course can count as their final math course for graduation and this course can also be taken as an elective for qualified students.

Students who take AP classes will take the associated AP exam at the end of the course. The AP exam cost is currently $96 per exam (subject to change per College Board) and students are expected to take the exam for each AP course in which they are enrolled.

The courses listed below may be used to fulfill a student's fourth math credit or third and/or fourth credit in science:

03166E1000 **Computer Science Essentials – PLTW**

10016G1000 **Cybersecurity – PLTW (Prerequisite: Computer Science Essentials or AP CSP)**

21022G1000 **Computer Science Principles, AP**

10157E1000 **Computer Science A, AP (teacher recommendation required)**

Course descriptions can be found in the Computer Science Academy section.

Business Leadership Academy

The Business Leadership Academy is designed to give high school students an opportunity to prepare for collegiate studies and careers in the fields of business, management, marketing, insurance, and accounting. In addition, The Business Academy offers students that have entrepreneurial spirits the opportunity to explore the demands of starting and owning your own business. Finally, The Business Academy provides vital information to those, in any career field, that hope to serve as a leader in an organization.

Emphasis is placed on a college preparatory curriculum that is directly linked to the business world. During their junior or senior year, students are provided college credit opportunities through a dual enrollment agreement with Jefferson State Community College. Students also have the opportunity to earn certifications for Microsoft Office and Adobe Creative Suite and participate in a variety of competitions offered through Future Business Leaders of America (FBLA), Junior Achievement, and others.

Business Software Applications I (12002G1001)
Fee required — **Year-long/1 credit**
Prerequisite: None — **Grades 9-12**

The Microsoft Imagine Academy gives students the opportunity to learn The Microsoft Office Suite of programs and earn the highly valued Microsoft Office Specialist Certification in Microsoft Word, Excel, PowerPoint and Outlook. Students will utilize software training resources and GMetrix practice testing to prepare for the certification exams.

This software training would benefit every HTHS student helping them be prepared for collegiate level work using Microsoft products and for their future career.

Foundations of Business Leadership (12051G1000)
Fee required — **Year-long/1 credit**
Prerequisite: None — **Grades 9-10**

Foundations of Business Leadership helps students develop an understanding of how academic skills in mathematics, economics and written and oral communications are integral components of success in any business career. The course is divided into four primary units of study including management/leadership, marketing, accounting/finance, and entrepreneurship.

Students examine leadership and management models to determine the impact on business and industry. They are then introduced to the functions of marketing, the 4 Ps, and consumer behavior. Accounting and finance topics used by most all business professionals and management teams are introduced and finally, students will get a sneak peak of entrepreneurship concepts.

Digital Publications Design (12008G1002)
Fee Required — **Year-long/1 credit**
Prerequisite: None — **Grades 9-12**

Multimedia Publications is a one-credit course that guides students through learning the use of Adobe Photoshop, InDesign, and Illustrator. Students will learn how to edit and alter photographs, create engaging publications, and use various shapes and shading to create all types of artwork. This course is geared for students to earn industry recognized certifications in Adobe Photoshop and InDesign.

Marketing Principles (12164G1001) — **Year-long/ 1 credit**
Fee required — **Grades 10-12**
Prerequisite: None

Marketing Principles provides students with an overview of marketing concepts. Students develop a foundational knowledge of marketing and its functions, market research, brand awareness, social media, marketing information management (CRM), the 4 Ps, service industry marketing, promotion and selling, and marketing careers in various industries.

Entrepreneurship (12053G1000) **Year-long/1 credit**
Fee Required **Grades 11-12**
Prerequisite: One full-credit Business Academy course previously completed

Provides students with an understanding of the critical role played by entrepreneurs in the national and global economy. Students learn not only the skills necessary to become entrepreneurs, but also the attitudes, characteristics, and techniques found in successful entrepreneurs that students will need to succeed.

Students explore the steps necessary to starting a business, including financing, forms of organization, and business plans. They learn about the operational issues that new businesses are faced with, such as taxation, licensing, and liabilities, as well as the financial risks of starting a business. Students examine ethical issues and develop a framework for managing them. Finally, students submit completed business plans and elevator pitches in the Junior Achievement Business Plan Challenge, as they compete in a local pitch competition hosted by Junior Achievement of Greater Birmingham.

Dual Enrollment Principles of Accounting I- BUS 241 (12999C1005) ONLINE COURSE **Semester /.5 credit**
Dual Enrollment Principles of Accounting II- BUS 242 (12999C1006) ONLINE COURSE **Semester / .5 credit**

3 college credit hours each-Total of 6 hours college credit **Grades 11-12**
Prerequisite: Course open to students in grade 11 & 12 with 3.0 GPA or higher.
Cost: Jeff State tuition plus cost of textbook

The DE Principles of Accounting I (Semester 1) is an online course offered through Jeff State. It is designed to provide a basic theory of accounting principles and practices used by service and merchandising enterprises. Emphasis is placed on financial accounting, including the accounting cycle, and financial statement preparation and analysis.

The DE Principles of Accounting II (Semester 2) is an online course offered through Jeff State. It is a continuation of BUS 241. In addition to a study of financial accounting, this course also places emphasis upon managerial accounting, with coverage of corporations, statement analysis introductory cost accounting, and use of accounting information for planning, control, and decision making.

Dual Enrollment Principles of Management- BUS 275 (12999C1011) ONLINE COURSE **Semester / .5 credit**
3 college credit hours **Grades 11-12**
Prerequisite: Keyboarding skills recommended
Cost: Jeff State tuition plus cost of the textbook

The DE Principles of Management is an online course offered through Jeff State. The course provides a basic study of business management principles. Students will learn concepts necessary for leading and managing in a constantly evolving business environment. Topics that will be presented include functions related to planning, organizing, staffing, directing, and controlling with emphasis on practical business applications. Students complete coursework online during their assigned class period at HTHS.

Dual Enrollment Microcomputer Applications- CIS 146 (10999C1007) ONLINE COURSE **Semester / .5 credit**
3 college credit hours **Grades 11-12**
Prerequisite: Keyboarding skills recommended
Cost: Jeff State tuition plus cost of the textbook

This course is an online course taught online by a Jeff State instructor but facilitated by an HTHS instructor in an HTHS lab during the school day. It is an introduction to the most common microcomputer software applications. These software packages should include typical features and applications such as word processing, spreadsheets, and database management and presentation software. Upon completion, students will be able to utilize selected features of these packages. Note: This is a required course for most college majors. Students complete coursework online during their assigned class period at HTHS.

Leadership Hewitt Trussville (12047G1002) **Year-long 1 credit**
Prerequisite: Faculty Nomination, Completed Application and Interview **Grades 11-12**

Trussville Civic Leadership is a one-credit course (two semesters) designed to provide students with skills needed to effectively organize, develop, create, and present a project proposal based on the needs of the Trussville community. Through a partnership between HTHS, The Trussville Chamber of Commerce, and the City of Trussville, this program fosters the development of leadership skills, critical thinking, integration of technology, and application of knowledge and skills related to practical questions and problems. Topics covered include collaborative leadership, business management and entrepreneurship, communication and interpersonal skills, economics, and professional development foundations.

Biomedical Sciences Academy

Biomedical Sciences is a broad field encompassing many different medical and health care disciplines. These include biochemistry, biomedical engineering, dentistry, forensics, microbiology, immunology, pharmacology, physiology, radiological sciences and more. The HTHS Biomedical Sciences Academy uses the nationally recognized Project Lead the Way (PLTW) curriculum which gives students the academic foundation to enter any of these fields. The Biomedical Sciences Program is a *sequence of four courses taken in progression:*

Principles of Biomedical Sciences
Human Body Systems
Medical Interventions
Biomedical Innovations

PLTW-Course: Principles of Biomedical Sciences (14252G1002) **Year-long / 1 credit**
Fee Required **Grades 9 – 12**

This course introduces medical field careers and basic biomedical sciences through exciting "hands-on" projects and problems. It provides an overview of scientific knowledge needed for the subsequent courses. During the course, students work together with a variety of medical equipment to determine the factors that led to the death of a fictional person. After pinpointing those factors, the students investigate lifestyle choices and medical treatments that might have prolonged the person's life.

Student work involves the study of human medicine, research processes, and health conditions such as heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. Students explore healthcare science careers in medicine, nursing, pharmacy, medical research, physical therapy, dentistry, medical imaging, etc. Key biological concepts included in the curriculum are homeostasis, cardiovascular structure, metabolism, inheritance of traits, and defense against disease.

PLTW-Human Body Systems (14299G1002) **Year-long / 1 credit**
Fee Required **Grades 10-12**

Prerequisite: Successful completion of the Principles of Biomedical Sciences class or instructor approval.

During this course, students will study the processes, structures, and interactions of the human body systems. The focus of the class will be basic human physiology that shows how the body systems work together to keep the amazing human machine functioning. Thus, the central theme is how the body systems work together to maintain homeostasis and good health.

Students will use "hands-on" activities to design experiments, investigate the structures and functions of body systems with clay manikins, and use data acquisition software to monitor body functions such as muscle movement, reflexes, voluntary actions, respiratory operation, and walking gait. Also, students will work through interesting real-world cases and often play the role of biomedical professionals to solve medical mysteries. Important concepts in the course include: communication, transport of substances, movement, metabolic processes, defense, and protection.

PLTW-Medical Interventions (14299G1003) **Year-long / 1 credit**
Fee Required **Grades 11-12**

Prerequisite: Successful completion of the* Principles *of Biomedical Sciences class, Human Body Systems, or instructor approval.

In the Medical Interventions course, students will investigate the variety of interventions involved in the prevention, diagnosis and treatment of diseases as they follow the lives of a fictitious family. Thus, this course explores the design and development of various medical interventions, including vascular stents, DNA analysis, cancer treatment, cochlear implants, and prosthetic limbs. In addition, students review the history of organ transplants and gene therapy. Additionally, students will experience cutting-edge medical developments through current technology and scientific literature.

Student projects investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care. Using 3D imaging, data acquisition software, and current scientific research, students will design a product that can be used as a medical intervention. This means that students will be able to apply scientific thinking and design for critical medical situations.

Biomedical Innovations (14255G1000) **Year-long/1 credit**
Grade 12

Fee Required
Prerequisite: Medical Interventions or instructor approval

In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology.

Students will also have the opportunity to job shadow at various healthcare sites in the Trussville and Birmingham areas

Sports Medicine

Sports Medicine Fundamentals (14062G1003) **Year-long/1credit**

Fee Required **Grades 11-12**

Prerequisite: Principles of Biomedical Sciences, Human Body Systems or Anatomy and Physiology, student athletic trainer assistant experience or permission of instructor

Limited enrollment – students with prerequisite(s) will be given preference

Fundamentals of Sports Medicine will explore the development of an athletic training program and a sports medicine team. Our exploration will use lab and classroom discussion to learn evaluation, treatment/rehabilitation, immediate care, and administration of injury in the sports setting. The goal is to provide students the opportunity to explore this career choice that is the fastest growing opportunity in medicine today. This course will help students that are interested in a wide range of medical professions.

(Freshmen interested in the Sports Medicine course should take Principals of Biomedical Sciences as this will be a required prerequisite in the future. Sophomores should take Human Body Systems as this will be a preferred prerequisite in the future)

Sports Medicine Intermediate (14062G1001)– New course coming 2023-24
Sports Medicine Advanced (14062G1002)– New course coming 2024-25

Emergency Medical Technician Training Program

Dual Enrollment Scholarships Provided

Recommended for students who are planning collegiate studies in nursing, pre-medicine, pre-dentistry, pre-pharmacy, pre-physician assistant and other professional health occupation studies or students interested in a career as a firefighter or EMT.

Participating students must take the EMT National Registry Exam before graduation.

JSCC-EMS 118 Emergency Medical Technician (14999C1004)

Grade 12
Each Semester: .5 credit
9 semester hours of college credit
Meeting: Daily during school hours

Prerequisite:* Course open to all students in grade 12 with 2.5 unweighted GPA or higher. Qualifying Biomedical and Fire and Emergency Services Academy students will be given preference but *prior participation in these programs is not required.

The course provides students with insights into the theory and application of concepts related to the profession of emergency medical services and is required to apply for certification as an Emergency Medical Technician. Specific topics include: EMS preparatory, airway maintenance, patient assessment, management of trauma patients, management of medical patients, treating infants and children, and various EMS operations. This course is based on the NHTSA National Emergency Medical Services Education Standards.

JSCC-EMS 119 Emergency Medical Technician Clinical (14999C0505) **Semester / .5 credit**
1 semester hour **Grade 12**
Meeting: Scheduled by appointment off campus at clinical rotation sites.

Grade Level: 12
***Prerequisite:* Course open to students in grade 12 with 2.5 unweighted GPA or higher. Students must be admitted into the EMS program prior to registration at Jefferson State Community College. Students must maintain a "C" or higher in any EMS 118 to be eligible for clinical rotations.**

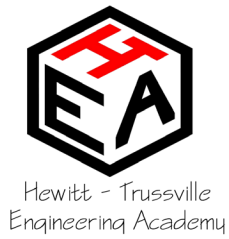
This course is required to apply for certification as an EMT. This course provides students with clinical education experiences to enhance knowledge and skills learned in the EMS 118, Emergency Medical Technician Theory and Lab. This course helps students prepare for the National Registry Exam.

Scholarship tuition funds may be awarded to students based upon the following criteria:

1. Completed and accepted application to the Jefferson State Community College Emergency Medical Services Program.
2. Qualifying Biomedical and Fire and Emergency Services Academy students will be given preference but *prior participation in these programs is not required*. Interviews will instructors may be required.
3. ACT and GPA may be used to rank qualifying applicants for awarding of available scholarship funds.
4. Qualified students who are not awarded a scholarship may self-pay the tuition class if class seats are available. Class sizes are subject to JSCC class size policy

The cost of fees, class supplies, clinical uniforms, health screenings, required immunizations and background checks may be the responsibility of the student if scholarship funds are not available.

Engineering Academy



The Hewitt-Trussville Engineering Academy will prepare our students for the increasing technological demands of the global environment. The students enrolled in this program will utilize math, science, technical writing, and computer skills as they explore different areas of engineering. This program will serve as a platform for students who wish to pursue an engineering or technical degree after high school.

Students work as a team, utilizing the latest engineering software to design products and solve problems. Students develop their problem-solving skills as they progress through the curriculum. The program is structured to meet the needs of regional, state and local industries.

The Project Lead the Way Engineering Curriculum (www.pltw.org) is a nationally recognized engineering curriculum for high school level students designed to increase the quantity and quality of engineers. The high school program is a four-year sequence of courses which, when combined with college preparatory mathematics and science courses in high school, introduces students to the scope, rigor and discipline of engineering prior to entering a four-year college engineering program.

Introduction to Engineering Design (IED) (21017G1000) **Year-long / 1 credit**
Fee Required **Grades 9-12**

Introduction to Engineering Design (IED) is a high school level course that is appropriate for 9th or 10th grade students who are interested in design and engineering or another technical career. The major focus of the IED course is to expose students to a design process, professional communication and collaboration methods, design ethics, and technical documentation. IED gives students the opportunity to develop skills in research and analysis, teamwork, technical writing, engineering graphics, and problem solving through activity-, project-, and problem-based (APPB) learning. Used in combination with a teaming approach, APPB-learning challenges students to continually hone their interpersonal skills and creative abilities while applying math, science, and technology knowledge learned in other courses to solve engineering design problems and communicate their solutions. Students will utilize the latest 3D solid modeling software to create their design solutions.

Principles of Engineering (POE) (21018G1000) **Year-long / 1 credit**
Fee Required **Grades 10-12**
Prerequisite – Introduction to Engineering Design

This survey course of engineering exposes students to some of the major concepts they'll encounter in a postsecondary engineering course of study. Students have an opportunity to investigate engineering and high-tech careers and to develop skills and understanding of course concepts. Students employ engineering and scientific concepts in the solution of engineering design problems. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students also learn how to document their work and communicate their solutions to peers and members of the professional community. This course is designed for 10th or 11th grade students.

Computer Integrated Manufacturing (CIM) / Robotics (21022G1000) **Year-long / 1 credit**
Fee Required **Grades 11-12**
Prerequisite – Principles of Engineering

The major focus of this course is to answer questions such as: How are things made? What processes go into creating products? Is the process for making a water bottle the same as it is for a musical instrument? How do assembly lines work? How has automation changed the face of manufacturing? As students find the answers to these questions, they learn about the history of manufacturing, a sampling of manufacturing processes, robotics, and automation. The course is built around several key concepts: computer modeling, Computer Numeric Control (CNC) equipment, Computer Aided Manufacturing (CAM) software, robotics and flexible manufacturing systems. This course is designed for 11th or 12th grade students.

Civil Engineering and Architecture (CEA) (21021G1000) **Year-long / 1 credit**
Fee Required **Grades 11 – 12**
Prerequisite – Introduction to Engineering Design and Principles of Engineering or Instructor Approval

The major focus of Civil Engineering and Architecture is completing projects that involve both residential and commercial building design. As students learn about various aspects of civil engineering and architecture, they apply what they learn to the design and development of a property. In addition, students use 3D architecture software to design solutions to solve major course projects. Students learn about documenting their project, solving problems, and communicating their solutions to their peers and members of the professional community. The effect of construction on environmental quality is thoroughly explored, including such aspects as wastewater management and green building options. This course is designed for 11th or 12th grade students.

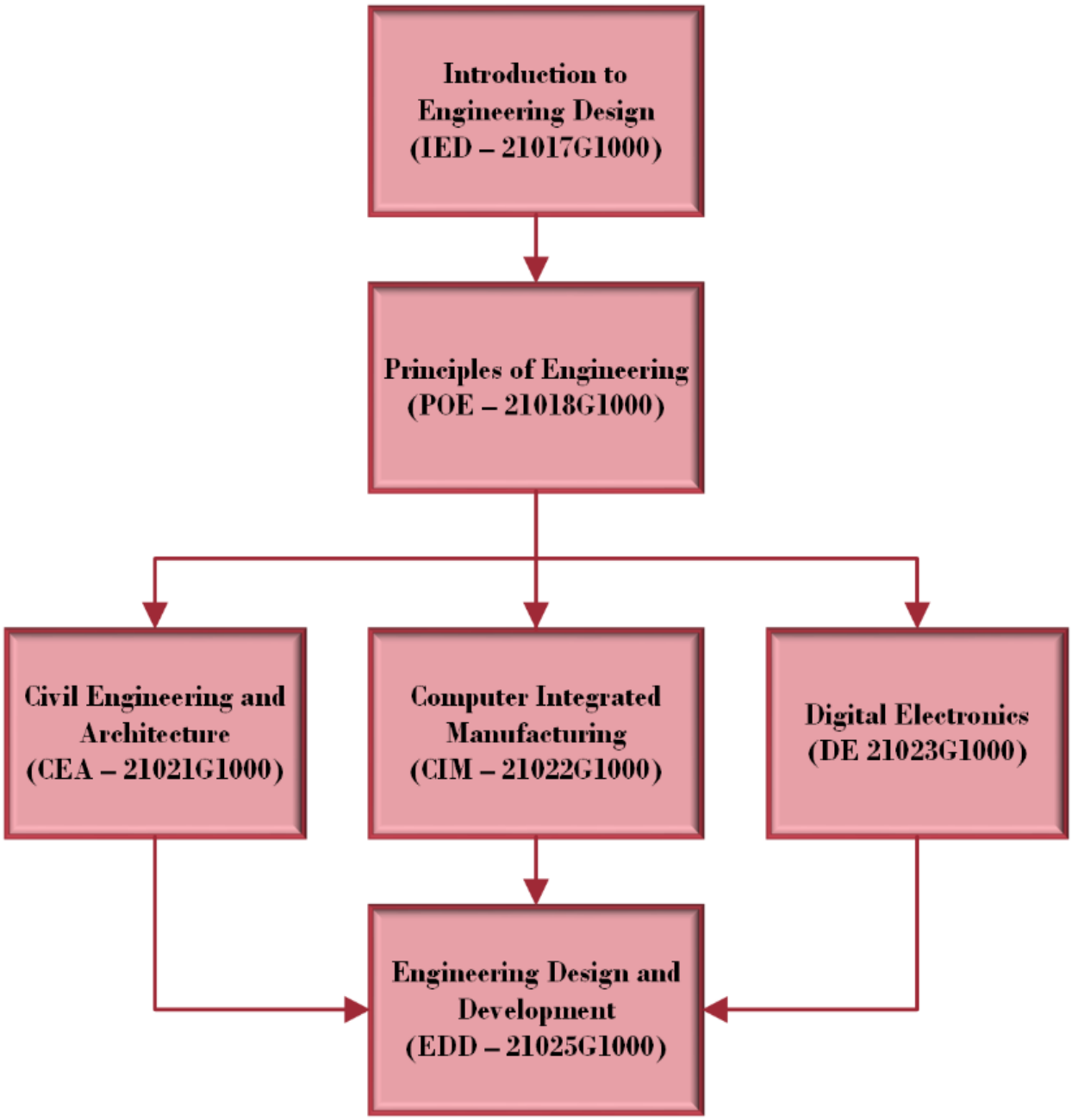
Digital Electronics (DE) (21023G1000) **Year-long/1 credit**
Fee Required **Grades 11 – 12**
Prerequisites - Introduction to Engineering Design and Principles of Engineering or Instructor Approval

Digital Electronics is the study of electronic circuits that are used to process and control digital signals. In contrast to analog electronics, where information is represented by a continuously varying voltage, digital signals are represented by two discreet voltages or logic levels. This distinction allows for greater signal speed and storage capabilities and has revolutionized the world of electronics. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, high definition televisions, etc. The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. This course is designed for 11th or 12th grade students.

Engineering Design and Development (EDD - Senior Design) (21025G1000) **Year-long / 1 credit**
Fee Required **Grades 12**
Prerequisite – Introduction to Engineering Design AND Principles of Engineering

This capstone course allows students to design a solution to a technical problem of their choosing. They have the chance to eliminate one of the "Don't you hate it when…" statements of the world. This is an engineering research course in which students work in teams to research, design, construct, and test a solution to an open-ended engineering problem. The product development lifecycle and a design process are used to guide and help the team to reach a solution to the problem. The team presents and defends their solution to a panel of outside reviewers at the conclusion of the course. The EDD course allows students to apply all the skills and knowledge learned in previous engineering courses. The use of 3D design software helps students design solutions to the problem their team has chosen. This course also engages students in time management and teamwork skills, a valuable asset to students in the future. This course is designed for 12th grade students.

See next page for suggested course progression diagram.


Introduction to Engineering Design (IED – 21017G1000)
Principles of Engineering (POE – 21018G1000)
Civil Engineering and Architecture (CEA – 21021G1000)
Computer Integrated Manufacturing (CIM – 21022G1000)
Digital Electronics (DE 21023G1000)
Engineering Design and Development (EDD – 21025G1000)

Hospitality & Culinary Arts Academy

The mission of the Hospitality & Culinary Arts Academy is to provide students with a comprehensive education about the culinary arts and hospitality industry. We are proud to be incorporating the nationally recognized ProStart program which allows students to gain college credits and professional certifications. The Academy integrates both academic and technical skills and caters to serious students who have an interest in learning about and/or pursuing careers in the culinary arts and hospitality field.

The Academy has an articulation agreement with The Hospitality and Culinary Arts Institute at Jefferson State Community College. This agreement allows students to earn articulated credit of up to 6 hours **towards a hospitality or culinary arts degree. In addition, we have articulation agreements with all community college culinary programs in the state of Alabama.**

Upon successful completion of the Hospitality and Culinary Arts Academy Program students are eligible to take the ProStart National Certificate of Achievement exam which qualifies them for scholarships and college credits. For more information go to www.nraef.org/prostart

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YEAR 1: Hospitality and Tourism (Intro to Culinary) (16001G1000) **Year-long / 1 credit**
Food and Supplies Fee required: **Grades 10-11**

Prerequisite: Sophomore or Junior status

This is an introductory course for students interested in pursuing a career in the hospitality, tourism and/or culinary arts industry. Students will explore a broad range of subjects including: career pathways; types of recreation, travel and tourism activities; current trends in foodservice and lodging operations; front and back of the house service standards; fundamentals of food safety and kitchen sanitation; culinary terminology; introduction to commercial equipment and small-wares; basic knife skills; the alchemy of taste; recipe standardization and cost control; herbs and spices and the fundamentals of dietetics and nutrition. The course will be taught with a variety of methods including lecture, chef demonstrations, group activities, individual projects and hands-on lab-based learning. Labs will focus on developing the students' fundamental cooking and baking skills. Topics include breakfast cookery; quick breads; soups; flatbreads; regional cuisine, and a variety of other food-related products and techniques.

YEAR 2: Culinary Arts I (16053G1012) **Year-long/1 credit**
Grades 11-12

Food and Supplies Fee required
Prerequisite: Junior or Senior status and successful completion of the Year 1 Hospitality and Tourism course

This course builds on the fundamental skills and knowledge acquired in the Year 1 Hospitality and Tourism foundational course. Students will broaden their knowledge base of the hospitality and culinary arts industry through a variety of topics including: hospitality and food-service operations management; purchasing, receiving and inventory control; hospitality business practices; restaurant design and menu development and marketing. The course will be taught with a variety of methods including lecture, chef demonstrations, group activities, individual projects and hands-on lab-based learning. Labs will focus on developing the students' intermediate cooking and baking skills. Topics include stocks, sauces, dry and moist heat cooking methods, garde manger; basic pastry skills; bread baking and a variety of other food-related products and techniques. *The nationally recognized ServSafe certification is an integral part of this course*

YEAR 3: Culinary Arts II (16053G1022) **Year-long/ 1 credit**
Food and Supplies Fee required: - Fee includes FCCLA organization membership dues. **Grade 12**
Prerequisite: Junior or Senior status and successful completion of or concurrent enrollment in Culinary I

This course builds on the intermediate skills and knowledge acquired in the Culinary 1 course. The course focuses on professional development and advanced culinary food production. Topics include advanced management concepts such as industry laws and regulations; hospitality entrepreneurship; the organization and implementation of special events, international cuisine, banquets and catered affairs; and resume building and interviewing skills. The course will be taught with a variety of methods including lecture, chef demonstrations, group activities, individual projects and hands-on lab-based learning. Labs will focus on developing the students' advanced cooking and baking skills.

Electrical Construction Academy

The Electrical Construction Academy prepares students for employment and post-secondary studies in the electrical trade and related occupations.

All courses involve classroom and electrical lab work and all courses will lead to NCCER national certifications in the electrical trade. Students earning these certifications will have their name and certification level entered into a national database for future job opportunities. Students will also earn their OSHA safety certification and, upon graduation, will be eligible for employment with local area electrical contractors.

Year One:	**NCCER Electrical Technologies 1**
Year Two:	**NCCER Electrical Technologies 2**
Year Three:	**NCCER Electrical Technologies 3**

NCCER Electrical Technologies 1 (17101G1000) **Year-long / 1 credit**
Fee Required **Grades 9-12**

This is the first of three required one-credit courses in the Electrical Technologies Pathway. It is designed to complete all core requirements for NCCER Core Credentialing and to provide students with fundamental knowledge and skills emphasizing use of hand tools, power tools, and electrical theory which are utilized in the construction industry and required for NCCER Electrical Level 1 Credential. Grades 10-12 receive precedence when scheduling this class.

NCCER Electrical Technologies 2 (17103G1000) **Year-long / 1 credit**
Fee Required **Grades 10-12**
Prerequisite: NCCER Electrical Technologies 1

This is the second of three one-credit courses in the Electrical Technologies pathway. It is designed to provide students with theory, practice, and skills development. Emphasis is placed on fundamental knowledge and skills in basic wiring, understanding circuitry, performing basic wiring patterns, and using the National Electric Code (NEC) leading to NCCER Electrical Level 2 Credential.

NCCER Electrical Technologies 3 (17105G1000) **Year-long / 1 credit**
Fee Required **Grades 11-12**
Prerequisite: NCCER Electrical Technologies 2

This is the third of three required one-credit courses in the Electrical Technologies pathway. It is designed to provide students with theory, practice, and skills development. Emphasis is placed on application and skills in intermediate wiring, circuitry, wiring patterns, and using the National Electric Code (NEC) leading to the NCCER Electrical Level 3 Credential.

Work Based Learning

Work Based Learning is a structured component of the Career and Technical Education (CTE) curriculum that integrates classroom instruction with productive, progressive, supervised, work-based "experiences or apprenticeships" (paid) and "internships" (unpaid), related to students' career objectives. Content is planned for students through a cooperative arrangement between the school and employer as a component of work-based learning.

It is recommended, but not required, that a student obtain concentrator status, (two courses within a CTE program) prior to enrollment in work-based learning. Students who have not obtained concentrator status must have successfully completed a minimum of one CTE credit. The Career Preparedness course will count as a Career Technical course.

A completed application packet is required to be considered for any Work-Based Learning placement. Application packets can be obtained in the HTHS Guidance Office or from WBL Coordinator, Amber Benson. *All application packets must be completed and turned in to Mrs. Benson, Room A024.*

The Coordinator will ensure that all requirements for cooperative education are met. The Coordinator ensures that the student:

- *Is at least 16 years of age.*
- *Is classified as an 11th or 12th grader.*
- *Is on track for graduation.*
- *Has a clearly defined career objective.*
- *Possesses the knowledge, skills, behavioral qualities, and abilities required for successful employment.*
- *Is physically and mentally capable of performing the essential functions of the desired work-based experience. (Essential functions are responsibilities that must be performed by the position as identified by business and industry professionals. This list should be discussed with all students and/or at all IEP meetings).*
- *Has successfully completed or currently enrolled in the required prerequisite course, Career Preparedness, or documentation of course content objectives achieved.*
- *Has an acceptable attendance, grade, and discipline record as validated by the coordinator.*
- *Has completed an Application for Enrollment.*
- *Has provided the names of a minimum of three educators that know, and are not related to, the student and will complete recommendation forms including the teacher of the career cluster course, if applicable.*

Students must successfully complete 140 work hours to earn one course credit and a majority of these hours (over 50%) should be worked Monday through Friday.

Course Numbers:

22998G1014 – One period (credit) of work-based learning
22998G1014 – Two periods (credits) of work-based learning
22998G1014 – Three periods (credits) of work-based learning

Students are ultimately responsible for securing their own work experience/apprenticeship (paid) or internship (unpaid). The HTHS Work Based Learning Coordinator may have leads for jobs or internships and will provide any needed assistance with resumes, job applications, etc.

This is the link to the HTHS Work Based Learning Application for Enrollment and other information:
https://www.trussvillecityschools.com/cms/lib/AL50000063/Centricity/Domain/155/Application%20for%20WBL%20Co-Op%202022.pdf

Fire and Emergency Services Academy

Fire & Emergency Work-Based Learning (22998G1014) Year-long/1 credit

Prerequisite: **Desire to work in public safety, excellent attendance & discipline records, application completed (see Work-Based Learning Coordinator), parental approval required**

Physical Requirements: **Good physical condition, able to stand for long periods**

Selection: Interview with Trussville Fire & Rescue training supervisor required, students should be 11th or 12th grade.

Fees required: $100

Students will participate in work-based learning at one of the Trussville Fire and Rescue stations. Students will be off campus during 7th period each day; however, rotations at the fire station may be only one or two days a week for several hours each day. As part of this work-based learning experience, students will be required to participate in the Trussville Fire & Rescue Explorer Post and ride-a-long program where the student will go on emergency runs with fire department personnel. Transportation to the assigned fire station must be provided by the student/guardian. Some of this coursework may expand beyond regular school hours.

Experiences may include but are not limited to:

Emergency Medical Experiences
CPR
Taking patient vital signs
Patient assessment
Bleeding control
Injury management
Lifting and moving patients

Fire Experiences
Using charged hose lines
Using portable extinguishers
Using self-contained breathing apparatus
Search and rescue
Learning ropes and knots
Catching a fire hydrant

***Students will not enter an uncontrolled burning structure.

Achievable Certifications
CPR

The Academy of Craft Training

The Academy of Craft Training is a public/private partnership between the construction industry and the State of Alabama's K-12 education system. Their mission is to recruit, educate and guide high school students for educational and employment opportunities in the construction industry. ***(Courses are available to Juniors and Seniors)***

- **Students are offered NCCER construction related training in Building Construction, Interior/Exterior Finishes, Welding, or HVAC/Plumbing.**
- **Students are transported to the AWTC facility in Birmingham 5 days a week and receive appropriate Math and education requirements along with their NCCER training.**
- **The Academy is a simulated workplace environment that follows drug screening requirements and policies and procedures mirroring that of industry.**

Course Code	Course Name	Credits
17004G1001	NCCER Building Construction 1 Construction Framing	1
17005G1001	NCCER Building Construction 2 Site Preparation	1
17005G1002	NCCER Building Construction 3 Construction Finishing	1
17057G1000	NCCER HVAC 1	1
100017051G	NCCER HVAC 2	1
17056G1000	NCCER HVAC 3	1
13207G1014	NCCER Welding 1	1
13207G1024	NCCER Welding 2	1
13207G1034	NCCER Welding 3	1
13207G1044	NCCER Welding 4	1
02153G1001	Career Mathematics	1
22998G1014	Cooperative Education Work-Based Experience- First Credit	1
22998G1024	Cooperative Education Work-Based Experience- Second Credit	1