



# **COURSE SELECTION GUIDE FOR THOMPSON HIGH SCHOOL**

**2024-2025**

ALABASTER CITY SCHOOLS  
10111 HIGHWAY 119, ALABASTER, AL 35007  
PHONE: 205-663-8400 FAX: 205-663-8408

DR. WAYNE VICKERS  
SUPERINTENDENT  
[WWW.ACSBOE.ORG](http://WWW.ACSBOE.ORG)

## **BOARD OF EDUCATION MEMBERS**

Mr. Adam Moseley, Board President  
[adam.moseley@acsboe.org](mailto:adam.moseley@acsboe.org)

Mr. Derek Henderson, Vice President  
[derek.henderson@acsboe.org](mailto:derek.henderson@acsboe.org)

Dr. John Myrick  
[john.myrick@acsboe.org](mailto:john.myrick@acsboe.org)

Ms. Misty Johnson  
[misty.johnson@acsboe.org](mailto:misty.johnson@acsboe.org)

Dr. Kristalyn Lee  
[kristalyn.lee@acsboe.org](mailto:kristalyn.lee@acsboe.org)

## **TEACHING AND LEARNING DEPARTMENT**

Dr. Amanda Wilbanks  
Chief Academic Officer  
[amanda.wilbanks@acsboe.org](mailto:amanda.wilbanks@acsboe.org)

Mr. Mark Gray  
Elementary Curriculum and Instruction Coordinator  
[mark.gray@acsboe.org](mailto:mark.gray@acsboe.org)

## **Our Mission**

Preparing students for their future.

## **Our Vision**

To partner with families and the community to inspire and prepare graduates to be responsible and productive champions of their future.

## **Our Beliefs**

These values and beliefs guide teaching, learning, and working in the Alabaster City Schools:

1. Our schools are safe, caring, learning communities engaged in continuous improvement, committed to the pursuit of excellence, and dedicated to the success of each student.
2. Our employees are qualified, dedicated, innovative, and student-centered, engaged in continued learning.
3. Our schools provide quality instructional programs, enriching extracurricular experiences, and a wide variety of opportunities for students to explore their interests, expand their dreams, and develop their talents.
4. Our schools partner with families, business, industry, post-secondary institutions, community agencies, and government to create and sustain outstanding facilities, technology, learning resources, and experiences to maximize student achievement.
5. Our schools embrace diversity, promote respectful relationships, and have high expectations and performance standards for all students and adults.
6. Our schools value integrity, open communication, shared responsibility, innovation, and accountability.

## **Statement of Non-Discrimination**

The Alabaster City Board of Education does not discriminate on the basis of race, color, religion, national origin, sex, disability or age in any of its programs and activities and provides equal access to the Boy Scouts and other designated groups. The following persons have been designated to handle inquiries regarding nondiscrimination policies.

Dr. Dorann Tanner, Chief Student Services Officer, Title VI and Title IX (student concerns),

[dorann.tanner@acsboe.org](mailto:dorann.tanner@acsboe.org)

Dr. Lantanza Harrison, Chief Human Resources Officer, Title IX (employee concerns),

[latanza.harrison@acsboe.org](mailto:latanza.harrison@acsboe.org)

Dr. Amanda Wilbanks, Chief Academic Officer, Title II, [amanda.wilbanks@acsboe.org](mailto:amanda.wilbanks@acsboe.org)

Mrs. Lisa Radcliff, Exceptional Education Supervisor, Section 504,

[lisa.radcliff@acsboe.org](mailto:lisa.radcliff@acsboe.org)

Contact information: 10111 Highway 119, Alabaster, AL 35007, 205-663-8400

# TABLE OF CONTENTS

|   |           |
|---|-----------|
| <b>Alabama High School Diploma Requirements</b>   | <b>6</b>  |
| <b>Challenging Courses for Secondary Students</b>   | <b>7</b>  |
| <b>Dual Enrollment and Early College</b>  | <b>8</b>  |
| <b>Class Ranking and Grade Point Average</b>  | <b>9</b>  |
| <b>Valedictorian and Salutatorian Selection</b>   | <b>10</b> |
| <b>Commencement Participation/Senior Activities</b>   | <b>10</b> |
| <b>Grade Placement</b>  | <b>10</b> |
| <b>Dropping and Adding Courses</b>  | <b>11</b> |
| <b>Credit Awarded Prior to High School</b>  | <b>11</b> |
| <b>Online Courses</b>   | <b>11</b> |
| <b>Credit Restrictions</b>  | <b>12</b> |
| <b>Accredited Schools, Non-Accredited Schools, and Home School</b>                            | <b>13</b> |
| <b>College and Career Readiness Indicators</b>  | <b>15</b> |
| <b>Alabama High School Athletics Association (AHSAA) Eligibility</b>                          | <b>16</b> |
| <b>Core Academic Classes:</b>   | <b>17</b> |
| English Language Arts   | 17        |
| Mathematics - NOTE: All students will take a math course each year – 9th through 12th grades. | 21        |
| Science   | 31        |
| Social Studies  | 36        |
| Physical Education & Health   | 40        |
| Career Preparedness   | 42        |
| <b>Fine Arts Academies</b>  | <b>48</b> |
| Dance Concentration   | 48        |
| Theatre Concentration   | 49        |
| Music Concentration   | 50        |
| Instrumental Music & Visual Ensemble  | 51        |
| Visual Arts Concentration   | 55        |
| <b>World Languages Academy</b>  | <b>58</b> |
| <b>Career Technical Academies &amp; Pathways</b>  | <b>62</b> |

|   |           |
|---|-----------|
| <b>Government &amp; Public Administration Academy</b>   | <b>62</b> |
| Air Force JROTC   | 62        |
| <b>Business Management &amp; Administration Academy</b> | <b>64</b> |
| <b>Marketing Academy</b>                                | <b>66</b> |
| <b>Education &amp; Training Academy</b>                 | <b>68</b> |
| <b>Engineering Academy &amp; Mechatronics Program</b>   | <b>70</b> |
| <b>Information Technology Academy</b>                   | <b>74</b> |
| Computer Science Pathway                                | 76        |
| Cybersecurity Pathway                                   |           |
| <b>Human Services Academy</b>                           | <b>77</b> |
| Early Childhood Development & Services Concentration    | 77        |
| Family Studies and Community Services Concentration     | 79        |
| <b>Health Sciences Academy</b>                          | <b>81</b> |
| Patient Care Concentration                              | 82        |
| Emergency Services                                      | 83        |
| Sports Medicine   | 84        |
| Project Lead the Way Biomedical Sciences                | 85        |
| Pharmacy  | 86        |
| <b>TV Production Academy</b>                            | <b>87</b> |
| <b>The Academy of Craft Training</b>                    | <b>88</b> |

## Alabama High School Diploma Requirements

The Alabama High School diploma is standardized for all students in the state of Alabama. ACS offers two additional endorsements to encourage students to challenge themselves with Honors and AP courses. The focus shifts from minimum requirements to comprehensive four-year high school plans.

This chart provides a reference guide to graduation requirements for students in the Class of 2024 and beyond:

| Areas of Study                                  | Requirements  | Credits   |
|---|---|-----------|
| English Language Arts                           | English 9, 10, 11, and 12 or any AP/IB/postsecondary equivalent option of these courses   | 4         |
| Mathematics                                     | Geometry with Data Analysis, Algebra I with Probability (Accelerated Grade 8 cannot be substituted but Accelerated 7 and Accelerated 8 combined is the equivalent*), Algebra II with Statistics, 1 -2 Specialized Courses. Additional specialized course(s) to complete the four credits in mathematics must be chosen from the Alabama Course of Study: Mathematics or CTE/AP/IB/postsecondary equivalent courses. | 4         |
| Science   | Biology and a Physical Science<br>The third and fourth science credits may be chosen from the Alabama Course of Study: Science or science eligible courses from the CTE/AP/IB/postsecondary equivalent courses.   | 4         |
| Social Studies                                  | World History, U.S. History I, U.S. History II, and Government/Economics or AP/IB/postsecondary equivalent courses. ALSDE Civics Test Requirement – For graduation, students are required to pass the Alabama Civics Exam.  | 4         |
| Physical Education                              | Beginning Kinesiology<br>One JROTC credit, one varsity athletics credit, or two years of marching band may be used to meet this requirement.  | 1         |
| Health Education                                | Alabama Course of Study: Health Education   | 0.5       |
| Career Preparedness                             | Career Preparedness Course  | 1         |
| CTE and/or World Language and/or Arts Education | Students choosing CTE, Arts Education, and/or World Language are encouraged to complete two courses in sequence.  | 3         |
| Electives                                       |   | 2.5       |
| <b>Total Credits Required for Graduation**</b>  |   | <b>24</b> |

*\*Taking Accelerated Math 7 and Accelerated Math 8 in middle school does not earn one of the four math credits required for a high school diploma. Students must take four math courses in high school.*

*\*\*Other graduation requirements: (1) Seniors must complete FAFSA or complete an opt-out waiver, (2) earn a college and career ready indicator (beginning with the Class of 2026) prior to graduation, and (3) pass the ALSDE Civics Test. (See subsequent pages for details on college and career ready indicators.)*

Based on our current schedule of 7 periods per day, students earn a half (.5) credit per semester long course to equal one (1) credit per year long course.  
.5 Credit = 1 Semester, 1 Credit = 2 Semesters (Full Year)

To meet the needs of all students, the Alabaster City School System offers the Alabama High School Diploma with two different endorsements. Students will have the opportunity to choose the Alabama High School Diploma with Advanced Academic Endorsement or Advanced Academic Endorsement with Honors. The chart below distinguishes between the two different endorsements.

| <b>ACS Advanced Academic Endorsement<br/>(26 credits)</b>  | <b>ACS Advanced Academic Endorsement<br/>with Honors (26 credits)</b>   |
|--|---|
| <ul style="list-style-type: none"> <li>• Must meet all requirements for an Alabama diploma</li> <li>• One Foreign Language Credit</li> <li>• Algebra II with Statistics, Honors</li> <li>• 2 Semesters of AP or dual enrollment</li> <li>• Must earn 26 credits</li> </ul> | <ul style="list-style-type: none"> <li>• Must meet all requirements for an Alabama diploma</li> <li>• Two Foreign Language Credits (of the same language)</li> <li>• One higher math (Pre-Calculus, Honors Pre-Calculus, AP or dual enrollment math, or AP Computer Science course)</li> <li>• Chemistry</li> <li>• 6 Semesters of AP or dual enrollment</li> <li>• Must maintain a GPA of 3.2</li> <li>• Must earn 26 credits</li> <li>• Valedictorians/Salutatorians must qualify for this endorsement</li> </ul> |

### **Challenging Courses for Secondary Students**

Alabaster City Schools offers advanced coursework for students in middle and high school. These courses are labeled as Honors or AP. An AP designation signifies that the courses follow the guidelines and recommendations set forth by the College Board. This coursework requires students to engage in independent and analytical assignments. The AP program is the national standard for academic rigor and college readiness, providing high school students with the opportunity to take college-level courses in a high school setting. AP courses provide the level of rigor that prepares students for postsecondary success.

These courses follow prescribed curricula and standards set forth by a postsecondary institution. Students interested in taking college-level courses in high school should take Honors classes in preparation for taking AP or dual enrollment classes, but completion of Honors courses is not required to take AP or dual enrollment courses.

Honors and AP courses are recommended for academically driven and prepared students. Typically, these courses offer deeper commitment to critical thinking, independent

learning, collaborative work, and individual initiative. Honors and AP teachers in Alabaster City Schools receive appropriate training and professional development, when available, to teach the content using the most engaging teaching practices. **Any student considering postsecondary education is strongly encouraged to take Honors, AP, dual enrollment, or equivalent courses in high school.**

### **Dual Enrollment and Early College**

Through partnerships with Jefferson State Community College, Lawson State Community College, The University of South Alabama, and The University of Alabama, students may earn college credit while also earning credit at Thompson High School. Students pay tuition as set and required by the college. Some courses may be available as early as 10<sup>th</sup> grade.

In order to be eligible to receive credits toward graduation through dual enrollment, students must:

1. Meet college entrance requirements and submit an application
2. Have an overall GPA of 3.0 or higher
3. Obtain written approval from the College Counselor

The table below lists dual enrollment courses that are usually offered by Thompson High School. See the college counselor for a full list of dual enrollment courses along with their college equivalency. *Course availability is subject to change.*

In most cases, high school credit will be awarded when college credit is earned. For example, if a student earns college credit for English 101, one (1) high school English credit is also earned. Students may only apply dual enrollment credits towards the credits required for graduation, provided they follow the dual enrollment course pathways established by the Alabama State Department of Education. There is no limit to the amount of college credit that may be earned.

| <b>Subject</b> | <b>Dual Enrollment Course Title</b>                                | <b>College Equivalency</b> |
|----------------|--|----------------------------|
| ENGLISH        | English Composition I and II                                       | ENG 101/102                |
| MATH           | Precalculus Algebra<br>Precalculus Trigonometry                    | MTH 112<br>MTH 113         |
|                | Calculus I   | MTH 125S                   |
| SCIENCE        | Introduction to Biology I and II<br>Principles of Biology I and II | BIO 101/102<br>BIO 103/104 |
| HISTORY        | United States History I<br>United States History II                | HIS 201<br>HIS 202         |



|           |  |                  |
|-----------|--|------------------|
| ELECTIVES | Emergency Medical Technician/<br>Emergency Medical Technician Clinical       | EMS 118/119      |
|           | General Psychology   | PSY 200          |
|           | Fundamentals of Public Speaking  | SP 107           |
|           | Electric Circuits I/Intro to Robotics  | ELM 200/AUT 116  |
|           | Electric Circuits II/Mechanical Tools I                                      | ELM 201S/MET 190 |
|           | Lean Manufacturing and Industrial Safety/Blueprint Reading for Manufacturing | AUT 102/AUT 104  |
|           | Music Appreciation   | MUS 101          |

### **Class Ranking and Grade Point Average**

Class rank is determined by ranking each student's overall grade point average within the graduating class. In order to determine recognition as valedictorians and salutatorians at graduation, class ranking is computed at the end of the first semester of their senior year. Students who do not meet this qualification until the end of senior year will have that recognition on their transcripts by June 1 but will not be recognized at graduation. The grade point average (GPA) is computed using the following:

| <b>Regular Courses</b> | <b>Honors Courses<br/>(Quality Points + 1.0)</b> | <b>AP Courses<br/>(Quality Points + 1.5)</b> | <b>Dual Enrollment Courses<br/>(Quality Points +.75 per semester)</b> |
|------------------------|--|--|---|
| A = 4.0                | A = 5.0  | A = 5.5                                      | A = 4.75  |
| B = 3.0                | B = 4.0  | B = 4.5                                      | B = 3.75  |
| C = 2.0                | C = 3.0  | C = 3.5                                      | C = 2.75  |
| D = 1.0                | D = 2.0  | D = 2.5                                      | D = 1.75  |
| F = 0.0                | F = 0.0  | F = 0.0                                      | F = 0.0   |

Rank-in-class is an indication of the student's academic standing in relation to that of the other students in the class. Grades in the identified course levels shall be weighted and grade point averages determined. The procedures for ranking students are as follows:

1. Tentative rank will be made at the end of the eleventh grade. Final rank is determined at the end of senior year, but rank for graduation order is determined at the end of first semester of senior year.
2. Letter grades (A, B, C, D, and F) for all subjects will be used in computing the grade point average.
3. All students within a grade level shall be included in determining class rank.
4. Transfer students arriving with Honors/AP course credit will receive the weight they received at their former school for Honors/AP courses. The student's transcript will not be recalculated by Thompson High School.
5. Transfer students completing Honors/AP courses at THS will be given weight for Honors/AP courses taken at THS even if the former school did not give weight. This may change the GPA.
6. Students in Advanced Placement courses are expected to complete the AP Exam for all courses in which they are enrolled. Failure to complete an AP Exam will result in the loss of the quality points added to the GPA for that course and the completion of a teacher-made final exam that will count toward the student's second semester grade.

### **Valedictorian and Salutatorian Selection**

To be considered for valedictorian or salutatorian, the student must receive the Alabama High School Diploma with Advanced Academic Endorsement with Honors. ACS will recognize multiple valedictorians and salutatorians with the announcement made in early spring of the students' senior year. The requirements for valedictorian will be any eligible student who earns a 4.0 and above, and salutatorian will be any student who earns a 3.8-3.99. The student with the highest grade point average will be recognized as the top valedictorian of the graduating class. In order to be the top valedictorian, the student must be enrolled at Thompson High School for both junior and senior years.

### **Commencement Participation/Senior Activities**

Students who receive a diploma or a graduation certificate as prescribed in their IEP shall participate in the graduation ceremony. Traditional education students who do not meet the requirements of graduation may not participate in the graduation ceremony itself or any other activity where the cap and gown are worn. They may, however, participate in all other related events (e.g. senior breakfast, prom, etc.).

### **Grade Placement**

- Grade 9 (Freshman) — Successful completion of middle school
- Grade 10 (Sophomore) — Successful completion of 6 credits
- Grade 11 (Junior) — Successful completion of 12 credits
- Grade 12 (Senior) — Successful completion of 18 credits

## **Dropping and Adding Courses**

Students and parents should make every effort to select and request appropriate courses during the course selection/registration process each spring. The master schedules for all students are determined by early summer based on student requests, so changing course requests after early summer is not easily accommodated. After the published deadlines have passed, any student wanting to drop and/or add a course should see the school counselor. All course changes beyond the published deadlines will require administrative approval and may incur a fee.

## **Credit Awarded Prior to High School**

Eighth grade students may earn high school credit for the following board approved courses: Spanish I, Symphonic Band I, Concert Band I, Orchestra I, Men's Chorus I, Women's Chorus I, Dance I, and Visual Arts I. Please note Algebra I credit will be awarded only for the Classes of 2022-2025. The general rules on courses taken and credits earned prior to ninth grade are as follows:

1. The course must be taken in eighth grade and will become part of the student's high school transcript.
2. The course must follow the Alabama Course of Study guidelines and include high school content and rigor. The course must be taught by a certified teacher.
3. The course cannot supersede required courses.
4. Middle school students earning high school credits from non-accredited settings will follow the same guidelines as high school students attempting to transfer courses. Validation is required.
5. Students may be allowed to repeat one of these courses in the 9<sup>th</sup> grade if satisfactory progress is not made; however, the grade earned in 8<sup>th</sup> grade will stand for the student's transcript and grade point average (GPA). Decisions will be made on a case by case basis.

## **Online Courses**

See Champions Virtual Academy Manual for specific information on virtual school. Those interested in virtual classes must contact the high school principal. High school students are allowed to take online classes if eligibility requirements are met. Eligibility for taking online courses is determined by the following procedures:

### **General Eligibility Requirements**

- Reside in the city limits of Alabaster, Alabama
- Be highly responsible in time management, organization, self-direction, and self-regulation
- Maintain consistent, daily access to the Internet (minimum 1.5 Mbps)
- Have access to a compatible computer/device, either a personally owned computer or Warrior Device Initiative Chromebook
- Be a rising 9th through 12th grade student
- Have consistent transportation to and from the student's assigned school for mandatory state testing and other required attendance events

- Have no expulsions or suspensions and no Class II or higher disciplinary infractions as defined by the ACS Code of Conduct and Attendance Middle & High Schools from the previous academic year (or semester if applying at mid-year)
- Have no more than 3 full day unexcused absences from the previous academic year (or semester if applying at mid-year).

### **Academic Eligibility Requirements**

- For the previous academic year (or semester if applying at mid-year):
  - Have an average of 75 or greater in every class (rising 9)
  - Have a GPA of 2.5 or greater (rising 10-12)
  - Have no credit deficiencies in required courses (rising 10-12)
  - Be on track to graduate with their cohort (rising 9-12)
  - Earn a College and Career Ready Indicator prior to graduation (rising 10-12)

### **Credit Restrictions**

#### **Prerequisites**

Any course that lists prerequisites should follow the stated sequence. Concurrent classes may be considered on a case by case basis.

#### **Duplicate Credit**

In accordance with the **Alabama Administrative Code Rule 290-3 -1 -.02 (8) (d) 1**, a student cannot earn credit towards graduation for a course that duplicates the course content for which credit has already been awarded.

#### **Subsumed Credit**

In accordance with the **Alabama Administrative Code, Rule 290-3-1-. 02 (8) (d) 2**, a student cannot earn credit towards graduation for a course with content that is subsumed (included) by a course for which credit has already been awarded. Therefore, if a student does take a subsumed course, credit will not be awarded.

#### **Additional Credit Guidelines**

A student may earn more than seven credits in a calendar year which includes the regular academic year plus the following summer. This includes credits earned in the regular school program, summer school program, distance learning program, or online programs. All school system procedures for each program must be strictly followed. Approval must be received from the principal prior to beginning any of these programs. Careful scheduling and consideration must be followed when approving additional credits. Credits earned must be reasonable.

#### **Continuous Attendance for Graduation**

Except in case of bona fide change of residence or other circumstances equally valid for making an exception, a student is not to be graduated from high school unless he/she has been in continuous attendance therein during the entire high school year immediately preceding the date of graduation. If so desired, a local board of education may require students residing within its attendance zone and transferring from a non-accredited school setting to attend its school(s) for two (2) entire school years immediately preceding the date of graduation. In the event of the transfer from one school to another of a twelfth grade student

who wishes to become a candidate for graduation at the end of the year, the school receiving the student should require approval in writing of the transfer and the student's candidacy for graduation from the principal of the school from which the student has withdrawn. The letter of approval together with any necessary memoranda should be filed with the transcript of the student's record from the discharging school. In case of doubts as to procedure or appropriate action in such a case, either or both of the principals of the schools concerned should discuss the matter with the State Department of Education.

**Alabama Administrative Code, Chapter 290-3-1-. 02-(8. 1) (h-i)**

### **Accredited Schools, Non-Accredited Schools, and Home School**

#### **Transfers from Accredited Schools and Home Schools**

Students transferring from accredited public, non-public, or home schools will have all credits and current class/grade placement accepted upon receipt of their official transcript(s) without validation. The Alabama State Department of Education and the U.S. Department of Education recognize the following accrediting agencies. Please check these institutions' websites for the latest list of recognized accrediting agencies.

- Middle States Association of Colleges and Schools
- New England Association of Schools and Colleges
- Higher Learning Commission
- Western Association of Schools and Colleges
- Northwest Accreditation Commission
- Southern Association of Colleges and Schools Council on Accreditation and School Improvement
- Cognia (AdvancED)

#### **Transfers from Non-Accredited Schools and Home Schools**

Appropriate credit/placement of students transferring from non-accredited schools shall be determined by utilizing placement tests, nationally standardized tests, and official records. All students transferring from non-accredited homeschools will be administered placement tests. Elective courses are transferred without validation. All transfer students must meet the local Board of Education graduation requirements.

#### **Home School Students**

When a student enters or re-enters a public school setting, the guardian will be required to provide documentation of the school years enrolled in a home school program, courses completed, and grading information. If the student is entering as a high school student and attempting to transfer credits, ACS will follow procedures based on whether the home school was accredited or non-accredited.

#### **Placement Tests Procedures**

After the principal verifies that a student has transferred from a non-accredited school or home school, the following procedures must be followed:

1. Administrator or counselor explains the following to parents:
  - Placement tests that will be required (language arts, math, social studies, and science)
  - The ALCOS serves as the study guide for the tests

- The tests will only be administered once

After explaining the testing process to parents, the administrator or counselor administers the placement test to the student at the local school. Tests will be administered as follows:

- Administer eighth grade test to incoming ninth grade students
- Administer ninth grade tests to incoming tenth grade students
- Administer tenth grade tests to incoming eleventh grade students
- Administer eleventh grade tests to incoming twelfth grade students

*Note: Teachers and classified employees cannot administer placement tests.*

2. An administrator or counselor scores the assessment to determine placement. A score of 60 or higher will indicate that the student has passed a course. The passing transfer grades will become part of the student's high school transcript.
3. An administrator or counselor will keep the scored assessment in the student's cumulative file.
4. An administrator or counselor notifies the parent/guardian of the results and makes necessary adjustments to the student's transcript and placement.

## **College and Career Ready Indicators**

Per the Alabama State Department of Education, beginning with the Class of 2026, all students must earn at least one College and Career Ready Indicator (CCRI) prior to graduation in order to receive their high school diploma. CCRI's are listed below:

- Earning a benchmark score in any subject area on the ACT college entrance exam.
- Earning a qualifying score of three or higher on an advanced placement exam.
- Earning a qualifying score of four or higher on an international baccalaureate exam.
- Earning college credit while in high school.
- Earning a silver or higher level on the ACT WorkKeys exam.
- Completing an in-school youth apprenticeship program.
- The student must earn a credential on the approved list for the CTE program declared at the school. The student must be declared in that program.
- Documented acceptance for enlistment into the military. The student must enlist in a branch of the military before graduating high school. An official letter from the recruiter stating the student has enlisted is required.
- Attaining career and technical education completer status. The student must complete three courses in one CTE program and have earned a 70 or higher in each of the three courses.
- Any additional college and career readiness indicator approved by the State Board of Education.

## **Alabama High School Athletics Association (AHSAA) Eligibility:**

### **Academic Rule**

The updated Bylaws/Eligibility Handbook for the Alabama High School Athletic Association can be located at [www.ahsaa.com](http://www.ahsaa.com).

### **NCAA Information for Prospective College Student-Athletes**

All prospective student-athletes intending to enroll in an NCAA Division I or II institution must register with the NCAA Clearinghouse at the end of their 11<sup>th</sup> grade year. Please visit [www.ncaaclearinghouse.net](http://www.ncaaclearinghouse.net) for detailed information and instructions.

ACS provides this information to the best of its ability, but the NCAA has the final authority on the courses they accept.

For questions concerning courses and NCAA, please contact the college counselor.



## **Core Academic Classes:**

### **English Language Arts**

#### **English 9**

**Course Code** 01001G1000

1 credit; No fee

In Grade 9, students understand the importance of aesthetic decisions by the author and note how choices of syntax and diction shape and clarify meaning. Standards are organized under types of literacy (critical, digital, language, and research) to reflect the applications of literacy in a rapidly changing world. This format represents an effort to show that successful communication requires multifaceted receptive and expressive skills. Standards emphasize world literature through 1599 to give students a broad and deep foundation. Students learn and practice active listening, read a variety of workplace and literary texts, learn and practice essential digital skills, utilize a process to create and modify written work, implement conventions of language and usage, and utilize context to decipher word meanings all through reading, listening, writing, and speaking. NOTE: THIS COURSE FULFILLS AN ENGLISH CREDIT REQUIRED FOR GRADUATION. Summer reading may be required, and information will be provided in the spring prior to 9<sup>th</sup> grade.

#### **English 9, Honors**

**Course Code** 01001H1000

1 credit; No fee

This accelerated paced course will help prepare students for Advanced Placement English. English 9, Honors dives deeper into the content knowledge of context through a multicultural diversity of text and types of text, and it provides an extension of the regular grade course work in relation to expression and reception. NOTE: THIS COURSE FULFILLS AN ENGLISH CREDIT REQUIRED FOR GRADUATION. Summer reading is required, and information will be provided in the spring prior to 9<sup>th</sup> grade.

#### **English 10**

**Course Code** 01002G1000

1 credit; No fee

In Grade 10, students learn and practice active listening, read a variety of workplace and literary texts, learn and practice essential digital skills, utilize a process to create and modify written work, implement conventions of language and usage, and utilize context to decipher word meanings. Tenth grade standards emphasize world literature from 1600 to present day to give students a broad and deep foundation. Students learn and practice active listening, read a variety of workplace and literary texts, learn and practice essential digital skills, utilize a process to create and modify written work, implement conventions of language and usage, and utilize context to decipher word meanings all through reading, listening, writing, and speaking. NOTE: THIS COURSE FULFILLS AN ENGLISH CREDIT REQUIRED FOR GRADUATION. Summer reading may be required, and information will be provided in the spring prior to 10<sup>th</sup> grade.

**English 10, Honors****Course Code** 01002H1000

1 credit; No fee

This course provides skills for literary analysis of readings, as well as advanced composition that will prepare students for Advanced Placement English. English 10, Honors dives deeper into the content knowledge of context through a multicultural diversity of text and types of text, and it provides an extension of the regular grade course work in relation to expression and reception. NOTE: THIS COURSE FULFILLS AN ENGLISH CREDIT REQUIRED FOR GRADUATION. Summer reading is required, and information will be provided in the spring prior to 10<sup>th</sup> grade.

**English 10, Honors with AP Seminar****Course Code** 01013E1001

1 credit; Exam fee required

AP Seminar English courses expose students to a variety of texts covering multiple genres, topics, and rhetorical contexts in a seminar-style setting. These courses foster students' ability to summarize and explain the salient ideas in a text by analyzing an author's perspective, rhetorical choices, and argumentative structure. Students evaluate a variety of literary, informational, and visual texts, and synthesize perspectives to develop evidence-based arguments. Students convey their findings through multiple written formats, multimedia presentations, and oral defenses. NOTE: THIS COURSE FULFILLS AN ENGLISH CREDIT REQUIRED FOR GRADUATION. Summer reading is required, and information will be provided in the spring prior to 10<sup>th</sup> grade. Students must take the AP exam. This course is a prerequisite for AP Research, which is offered but not required.

**English 11****Course Code** 01003G1000

1 credit; No fee

In Grade 11, students will explore the literature of America before, during, and after European arrival. A year of specific attention because of literature's deep ties to all aspects of culture and its study encourages a cross-curricular understanding and appreciation of qualities that distinguish American literature specifically and American culture in general. Students learn and practice active listening, read a variety of workplace and literary texts, learn and practice essential digital skills, utilize a process to create and modify written work, implement conventions of language and usage, and utilize context to decipher word meanings all through reading, listening, writing, and speaking. NOTE: THIS COURSE FULFILLS AN ENGLISH CREDIT REQUIRED FOR GRADUATION. Summer reading may be required, and information will be provided in the spring prior to 11<sup>th</sup> grade.

**English 11, Advanced****Course Code** 01003E1000

1 credit; No fee

This course provides skills for literary analysis of readings, as well as advanced composition. English 11, Advanced dives deeper into the content knowledge of context through a multicultural diversity of text and types of text, and it provides an extension of the regular grade course work in relation to expression and reception. NOTE: THIS COURSE FULFILLS AN ENGLISH CREDIT REQUIRED FOR GRADUATION. Summer reading is required, and information will be provided in the spring prior to 11<sup>th</sup> grade.

**English 11, AP Language & Composition****Course Code** 01005E1000

1 credit; Course &amp; exam fee required

The AP English Language and Composition course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read and analyze rhetorical elements and their effects in nonfiction texts—including images as forms of text— from a range of disciplines and historical periods all through reading, listening, writing, and speaking. NOTE: THIS COURSE FULFILLS AN ENGLISH CREDIT REQUIRED FOR GRADUATION. Summer reading is required, and information will be provided in the spring prior to 11<sup>th</sup> grade.

**English 12****Course Code** 01004G1000

1 credit; No fee

In Grade 12, students focus on the literature of the British Isles, which provides both a linguistic and cultural starting point that more fully contextualizes the eventual forming of the United States and informs a sophisticated understanding of the connections between American and British literature contrasted with the unique character of each. British literature in the twelfth grade should read, analyze, and evaluate a play by William Shakespeare, including an examination of its contributions to the English language and his influences on other works of literature. Students learn and practice active listening, read a variety of workplace and literary texts, learn and practice essential digital skills, utilize a process to create and modify written work, implement conventions of language and usage, and utilize context to decipher word meanings all through reading, listening, writing, and speaking. NOTE: THIS COURSE FULFILLS AN ENGLISH CREDIT REQUIRED FOR GRADUATION. Summer reading may be required, and information will be provided in the spring prior to 12<sup>th</sup> grade.

**English 12, Advanced****Course Code** 01004E1000

1 credit; No fee

This course provides skills for literary analysis of readings, as well as advanced composition. English 12, Advanced dives deeper into the content knowledge of context through a multicultural diversity of text and types of text, and it provides an extension of the regular grade course work in relation to expression and reception. NOTE: THIS COURSE FULFILLS AN ENGLISH CREDIT REQUIRED FOR GRADUATION. Summer reading is required, and information will be provided in the spring prior to 11<sup>th</sup> grade.

**English 12, AP Literature & Composition****Course Code** 01006E1000

1 credit; Course &amp; exam fee required

The AP English Literature and Composition course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. NOTE: THIS COURSE FULFILLS AN ENGLISH CREDIT REQUIRED FOR GRADUATION. Summer reading is required, and information will be provided in the spring prior to 12<sup>th</sup> grade.

**Dual Enrollment English Composition I and II (ENG 101 and ENG 102)****Course Codes** 01999C1001 & 01999C1002

1 credit per course; Tuition and books required

Prerequisite: Students must meet dual enrollment entrance requirements.

Dual enrollment English Composition consists of two semester long college-level advanced courses following the curriculum established by Jefferson State Community College. Both courses must be completed with a 70 or higher to receive 11<sup>th</sup> and 12<sup>th</sup> grade English credits. English 101 is a prerequisite for 102. Students pay tuition to the college for this course and are responsible for the purchase of books.

English Composition I provides instruction and practice in the writing of at least four (4) extended compositions and the development of analytical and critical reading skills and basic reference and documentation skills in the composition process. Prerequisites are 18 or higher on ACT English portion, or qualifying Accuplacer score.

English Composition II provides instruction and practice in the writing of at least four (4) formal, analytical essays, at least one of which is a research project using outside sources and/or references effectively and legally. The course provides instruction in the development of analytical and critical reading skills in the composition process. Prerequisite is a 70 or higher in English 101.

**Mathematics - NOTE: All students will take a math course each year – 9<sup>th</sup> through 12<sup>th</sup> grades.**

**Suggested Pathways**

| Rising 9 <sup>th</sup> Grade – Class of 2028   |  |  |  |   |
|--|--|--|--|---|
| 2023-2024<br>8th Grade   | 2024-2025<br>9th Grade   | 2025-2026<br>10th Grade  | 2026-2027<br>11th Grade  | 2027-2028<br>12th Grade   |
| <b>Math 8</b>  | Geometry with Data Analysis or Geometry with Data Analysis, Honors   | Algebra I with Probability or Algebra I with Probability, Honors | Algebra II with Statistics or Algebra II with Statistics, Honors   | Algebra with Finance, Applications of Finite Mathematics, Pre-Calculus, Pre-Calculus Honors, Dual Enrollment Pre-Calculus, AP Pre-Calculus, AP Statistics, or AP Computer Science Principles  |
| <b>Math 8</b><br><br><i>*Students may take Geometry with Data Analysis and Algebra I with Probability simultaneously for the purpose of advancing to higher level math courses beyond Pre-Calculus in their senior year.</i> | Geometry with Data Analysis or Geometry with Data Analysis, Honors AND Algebra I with Probability or Algebra I with Probability, Honors* | Algebra II with Statistics or Algebra II with Statistics, Honors | Pre-Calculus or Pre-Calculus, Honors, AP Pre-Calculus, or Dual Enrollment Pre-Calculus<br>*Students may choose to take AP Statistics in addition to Pre-Calculus<br><b>OR</b><br>Applications of Finite Mathematics<br>Or<br>AP Statistics | AP Calculus AB or BC, AP Statistics, AP Computer Science Principles, or Dual Enrollment Calculus<br><b>OR</b><br>Pre-Calculus, Pre-Calculus Honors, Dual Enrollment Pre-Calculus, AP Pre-Calculus, AP Statistics, or AP Computer Science Principles |
| <b>Accelerated Math 8</b>  | Geometry with Data Analysis, Honors  | Algebra II with Statistics, Honors                               | Pre-Calculus, Honors, AP Pre-Calculus, or Dual Enrollment Pre-Calculus<br>*Students may choose to take AP Statistics in addition to Pre-Calculus<br><b>OR</b><br>Applications of Finite Mathematics<br>Or<br>AP Statistics                 | AP Calculus AB or BC, AP Statistics, AP Computer Science Principles, or Dual Enrollment Calculus<br><b>OR</b><br>AP Statistics, AP Computer Science Principles, Pre-Calculus, Pre-Calculus Honors, Dual Enrollment Pre-Calculus, AP Pre-Calculus    |

| Rising 10 <sup>th</sup> Grade – Class of 2027   |  |  |   |
|---|--|--|---|
| 2023-2024<br>9 <sup>th</sup> Grade  | 2024-2025<br>10 <sup>th</sup> Grade                              | 2025-2026<br>11 <sup>th</sup> Grade  | 2026-2027<br>12 <sup>th</sup> Grade   |
| Geometry with Data Analysis or Geometry with Data Analysis, Honors<br><br>*Did <b>not</b> take Accelerated Math 7 <u>and</u> Accelerated Math 8   | Algebra I with Probability or Algebra I with Probability, Honors | Algebra II with Statistics or Algebra II with Statistics, Honors   | Algebra with Finance, Applications of Finite Mathematics, Pre-Calculus, Pre-Calculus Honors, Dual Enrollment Pre-Calculus, AP Pre-Calculus, AP Computer Science Principles, AP Statistics   |
| Geometry with Data Analysis or Geometry with Data Analysis, Honors<br><b>AND</b><br>Algebra I with Probability or Algebra I with Probability, Honors<br><br>*Did <b>not</b> take Accelerated Math 7 <u>and</u> Accelerated Math 8 | Algebra II with Statistics or Algebra II with Statistics, Honors | Pre-Calculus or Pre-Calculus, Honors, AP Pre-Calculus, or Dual Enrollment Pre-Calculus<br>*Students may choose to take AP Statistics in addition to Pre-Calculus<br><b>OR</b><br>Applications of Finite Mathematics<br>Or<br>AP Statistics | AP Calculus AB or BC, AP Statistics, AP Computer Science Principles, Dual Enrollment Calculus<br><b>OR</b><br>AP Statistics, AP Computer Science Principles, Pre-Calculus, Pre-Calculus Honors, Dual Enrollment Pre-Calculus, AP Pre-Calculus |
| Geometry with Data Analysis or Geometry with Data Analysis, Honors<br><br>* <b>Took</b> Accelerated Math 7 and Accelerated Math 8   | Algebra II with Statistics or Algebra II with Statistics, Honors | Pre-Calculus, Honors, AP Pre-Calculus, or Dual Enrollment Pre-Calculus<br>*Students may choose to take AP Statistics in addition to Pre-Calculus<br><b>OR</b><br>Applications of Finite Mathematics<br>Or AP Statistics                    | AP Calculus AB or BC, AP Statistics, AP Computer Science Principles, Dual Enrollment Calculus<br><b>OR</b><br>AP Statistics, AP Computer Science Principles, Pre-Calculus, Pre-Calculus Honors, Dual Enrollment Pre-Calculus, AP Pre-Calculus |

| Rising 11 <sup>th</sup> Grade – Class of 2026 |  |  |
|---|--|--|
| 2023-2024<br>10 <sup>th</sup> Grade           | 2024-2025<br>11 <sup>th</sup> Grade  | 2025-2026<br>12 <sup>th</sup> Grade  |
| Algebra I with Probability                    | Algebra II with Statistics or<br>Algebra II with<br>Statistics, Honors   | Algebra with Finance, Applications of<br>Finite Mathematics, Pre-Calculus, AP<br>Pre-Calculus, AP Computer Science<br>Principles   |
| Algebra I with Probability,<br>Honors         | Algebra II with Statistics, Honors   | Pre-Calculus Honors, Applications of<br>Finite Mathematics, AP Statistics, AP<br>Computer Science Principles, Dual<br>Enrollment Pre-Calculus, or AP<br>Pre-Calculus   |
| Algebra II with Statistics                    | Pre-Calculus or Pre-Calculus,<br>Honors, Dual Enrollment<br>Pre-Calculus, or AP<br>Pre-calculus<br>*Students may choose to take<br>AP Statistics in addition to<br>Pre-Calculus<br><b>OR</b><br>Applications of Finite<br>Mathematics<br>Or<br>AP Statistics | AP Calculus AB or BC, AP Statistics, AP<br>Computer Science Principles, Dual<br>Enrollment Calculus, or Applications of<br>Finite Mathematics<br><b>OR</b><br>Pre-Calculus, Dual Enrollment<br>Pre-Calculus, AP Pre-calculus, AP<br>Statistics, AP Computer Science<br>Principles, or Algebra with Finance |
| Algebra II with Statistics, Honors            | Pre-Calculus, Honors<br>Pre-Calculus, Dual Enrollment<br>Pre-Calculus, or AP<br>Pre-Calculus,<br>*Students may choose to take<br>AP Statistics in addition to<br>Pre-Calculus<br><b>OR</b><br>Applications of Finite<br>Mathematics<br>Or<br>AP Statistics   | AP Calculus AB or BC, AP Statistics, AP<br>Computer Science Principles, Dual<br>Enrollment Calculus, or AP Pre-Calculus  |

| Rising 12 <sup>th</sup> Grade – Class of 2025       |   |
|---|---|
| 2023-2024<br>11 <sup>th</sup> Grade                 | 2024-2025<br>12 <sup>th</sup> Grade   |
| Algebra II with Statistics                          | Algebra with Finance, Applications of Finite Mathematics, Pre-Calculus  |
| Algebra II with Statistics, Honors                  | Pre-Calculus Honors, Applications of Finite Mathematics, AP Statistics, AP Computer Science Principles, Dual Enrollment Pre-Calculus, AP Pre-Calculus |
| Pre-Calculus or Dual Enrollment Pre-Calculus        | AP Calculus AB or BC, AP Statistics, AP Computer Science Principles, AP Pre-Calculus, Dual Enrollment Calculus, Applications of Finite Mathematics    |
| Applications of Finite Mathematics                  | Pre-Calculus, Dual Enrollment Pre-Calculus, AP Pre-Calculus, AP Statistics, AP Computer Science Principles, Algebra with Finance                      |
| AP Statistics                                       | AP Pre-Calculus, Dual Enrollment Pre-Calculus, Pre-Calculus Honors, Pre-Calculus, Application of Finite Mathematics, AP Computer Science Principles   |
| AP Statistics and any Pre-Calculus                  | AP Calculus AB or BC, AP Pre-Calculus, Dual Enrollment Calculus, Application of Finite Mathematics, AP Computer Science Principles                    |
| Pre-Calculus Honors or Dual Enrollment Pre-Calculus | AP Calculus AB or BC, AP Statistics, AP Computer Science Principles, Dual Enrollment Calculus, or AP Pre-Calculus                                     |

### **Geometry with Data Analysis**

**Course Code** 02073G1000

1 credit; No fee; Prerequisite – Math 8, Accelerated Math 8

Geometry with Data Analysis is the first of three required courses in high school mathematics. In Geometry with Data Analysis, students incorporate knowledge and skills in Geometry and Measurement, Algebra and Functions, and Data Analysis, Statistics, and Probability, leading to a deeper understanding of fundamental relationships within the discipline and building a solid foundation for further study. The prerequisite for Geometry with Data Analysis is either Grade 8 Mathematics or Grade 8 Accelerated Mathematics. For students who opt to accelerate their mathematical pathways in the 9th grade, Geometry with Data Analysis may also be taken concurrently with Algebra I with Probability.



**Geometry with Data Analysis, Honors****Course Code** 02073H1000

1 credit; No fee; Prerequisite – Math 8, Accelerated Math 8

Geometry with Data Analysis, Honors is the first of three required courses in high school mathematics. In Honors Geometry with Data Analysis, students incorporate knowledge and skills in Geometry and Measurement, Algebra and Functions, and Data Analysis, Statistics, and Probability, leading to a deeper understanding of fundamental relationships within the discipline and building a solid foundation for further study. The prerequisite for Honors Geometry with Data Analysis is either Grade 8 Mathematics or Grade 8 Accelerated Mathematics. For students who opt to accelerate their mathematical pathways in the 9th grade, Honors Geometry with Data Analysis may also be taken concurrently with Algebra I with Probability.

**Algebra I with Probability****Course Code** 02052G1000

1 credit; No fee; Prerequisite – Geometry with Data Analysis, any level (Students who took Accelerated Math 7 and Accelerated Math 8 will not take this course.)

Algebra I with Probability builds upon algebraic concepts studied in Grade 7 and Grade 8 Mathematics. It provides students with the necessary knowledge of algebra and probability for use in everyday life and in the subsequent study of mathematics. Algebra I with Probability is the second of three courses required for all students. Students may enroll in this course after completing Geometry with Data Analysis in Grade 9 or by completing both Grade 7 Accelerated Mathematics and Grade 8 Accelerated Mathematics. Students who wish to accelerate their mathematics pathways in high school may also elect to enroll in Algebra I with Probability concurrently with Geometry with Data Analysis in the 9th grade.

**Algebra I with Probability, Honors****Course Code** 02052H1000

1 credit; No fee; Prerequisite – Geometry with Data Analysis, any level (Students who took Accelerated Math 7 and Accelerated Math 8 will not take this course.)

Algebra I with Probability, Honors builds upon algebraic concepts studied in Grade 7 and Grade 8 Mathematics. It provides students with the necessary knowledge of algebra and probability for use in everyday life and in the subsequent study of mathematics. Honors Algebra I with Probability is the second of three courses required for all students. Students may enroll in this course after completing Geometry with Data Analysis in Grade 9 or by completing both Grade 7 Accelerated Mathematics and Grade 8 Accelerated Mathematics. Students who wish to accelerate their mathematics pathways in high school may also elect to enroll in Honors Algebra I with Probability concurrently with Geometry with Data Analysis in the 9th grade.

### **Algebra II with Statistics**

**Course Code** 02056G1000

1 credit; No fee; Prerequisite – Algebra I with Probability and Geometry with Data Analysis, any level (Students who took Accelerated Math 7 and Accelerated Math 8 may take Algebra II with Statistics in 10th grade and are *not* required to take Algebra I with Probability as a prerequisite)

Algebra II with Statistics builds on the students' experiences in previous mathematics in Geometry with Data Analysis and Algebra I with Probability. It is the third of three required courses, and it is to be taken following the successful completion of Geometry with Data Analysis and either Algebra I with Probability or the combination of the Grade 7 Accelerated Mathematics and Grade 8 Accelerated Mathematics course sequence. It is the culmination of the three years of required mathematics content and sets the stage for continued study of topics specific to the student's interests and plans beyond high school. Algebra II with Statistics is the prerequisite for Applications of Finite Mathematics, Precalculus, and all other approved ALSDE mathematics classes designed for completion of students' fourth mathematics credit.

### **Algebra II with Statistics, Honors**

**Course Code** 02056H1000

1 credit; No fee; Prerequisite – Algebra I with Probability and Geometry with Data Analysis, any level (Students who took Accelerated Math 7 and Accelerated Math 8 may take Algebra II with Statistics, Honors in 10th grade and are *not* required to take Algebra I with Probability as a prerequisite)

Algebra II with Statistics, honors builds on the students' experiences in previous mathematics in Geometry with Data Analysis and Algebra I with Probability. It is the third of three required courses, and it is to be taken following the successful completion of Geometry with Data Analysis and either Algebra I with Probability or the combination of the Grade 7 Accelerated Mathematics and Grade 8 Accelerated Mathematics course sequence. It is the culmination of the three years of required mathematics content and sets the stage for continued study of topics specific to the student's interests and plans beyond high school. Algebra II with Statistics courses are the prerequisite for Applications of Finite Mathematics, Precalculus, and all other approved ALSDE mathematics classes designed for completion of students' fourth mathematics credit.

### **Algebra with Finance**

**Course Code** 02155G1000

1 credit; No fee; Prerequisite – Algebra II with Statistics, any level

Algebra with Finance is a college and career preparatory course that integrates algebra, precalculus, probability and statistics, calculus and geometry to solve financial problems that occur in everyday life. Real-world problems in investing, credit, banking, auto insurance, mortgages, employment, income taxes, budgeting and planning for retirement are solved by applying the relevant mathematics that are taught at a higher level. Students are encouraged to use a variety of problem-solving skills and strategies in real-world contexts,

and to question outcomes using mathematical analysis and data to support their findings. The course offers students multiple opportunities to use, construct, question, model, and interpret financial situations through symbolic algebraic representations, graphical representations, geometric representations, and verbal representations. Math concepts and skills are applied through study and problem-solving activities in workforce situations in the following areas: banking, investing, employment and income taxes, automobile ownership and operation, mathematical operations, consumer credit, independent living, and retirement planning and budgeting. This course may be used as the fourth math credit or an elective.

### **Applications of Finite Mathematics**

**Course Code** 02136G1000

1 credit; No fee; Prerequisite – Algebra II with Statistics, any level

Applications of Finite Mathematics was 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 and includes areas of study that are critical to the fast-paced growth of a technologically advancing world. The wide range of topics in Applications of Finite Mathematics includes logic, counting methods, information processing, graph theory, election theory, and fair division, with an emphasis on relevance to real-world problems. Logic includes recognizing and developing logical arguments and using principles of logic to solve problems. Students are encouraged to use a variety of approaches and representations to make sense of advanced counting problems, then develop formulas that can be used to explain patterns. Applications in graph theory allow students to use mathematical structures to represent real world problems and make informed decisions. Election theory and fair division applications also engage students in democratic decision-making so that they recognize the power of mathematics in shaping society. The prerequisite for Applications of Finite Mathematics is Algebra II with Statistics

### **Pre-Calculus**

**Course Code** 02110G1000

1 credit; No fee; Prerequisite – Algebra II with Statistics, any level

Precalculus is a course designed for students who have successfully completed the Algebra II with Statistics course. This course is considered to be a prerequisite for success in calculus and college mathematics. Algebraic, graphical, numerical, and verbal analyses are incorporated during investigations of the Precalculus content standards. Parametric equations, polar relations, vector operations, conic sections, and limits are introduced. Content for this course also includes an expanded study of polynomial and rational functions, trigonometric functions, and logarithmic and exponential functions. Application-based problem solving is an integral part of the course. Instruction should include the appropriate use of technology to facilitate continued development of students' higher-order thinking skills.

**Pre-Calculus, Honors****Course Code** 02110H1000

1 credit; No fee; Prerequisite – Algebra II with Statistics, any level

Pre-Calculus, Honors is an advanced course designed for students who have successfully completed the Algebra II with Statistics course. This course is considered to be a prerequisite for success in calculus and college mathematics. Algebraic, graphical, numerical, and verbal analyses are incorporated during investigations of the Precalculus content standards. Parametric equations, polar relations, vector operations, conic sections, and limits are introduced. Content for this course also includes an expanded study of polynomial and rational functions, trigonometric functions, and logarithmic and exponential functions. Application-based problem solving is an integral part of the course. Instruction should include the appropriate use of technology to facilitate continued development of students' higher-order thinking skills.

**Dual Enrollment Pre-Calculus Algebra (MTH 112) and Pre-Calculus Trigonometry (MTH 113)****Course Codes** 02999C1002 and 02999C1003

1 credit per course; Tuition and books required

Prerequisite – Algebra I with Probability, Geometry with Data Analysis, Algebra II with Statistics, any levels, and must meet dual enrollment entrance requirements

Dual enrollment Pre-Calculus consists of two consecutive semester-long college-level advanced courses following the curriculum established by Jefferson State Community College. Students will take Math 112 (Pre-Calculus Algebra) during the fall semester, and they may take Math 113 (Pre-Calculus Trigonometry) during the spring semester. Students pay tuition to the college for these courses. Prerequisite high school courses along with dual enrollment requirements must be met for enrollment in the courses.

**AP Pre-Calculus****Course Code** 02110E1001

1 credit; Course &amp; exam fee required

Prerequisite- Algebra II with Statistics (Honors level recommended)

Following College Board's course framework designed to parallel college-level precalculus courses, AP Precalculus provides students with an understanding of the concepts of college algebra, trigonometry, and additional topics that prepare students for further college-level mathematics courses. This course explores polynomial, rational, exponential, logarithmic, trigonometric, polar, parametric, and linear transformation functions and their applications. Throughout the course, the mathematical practices of procedural and symbolic fluency, multiple representations, and communication and reasoning are developed. Students experience the concepts and skills related to each function type through the lenses of modeling and covariation, and engage each function type through their analytical, verbal, numerical, and graphical representations. Students are required to take the AP exam.

**AP Calculus AB****Course Code** 02124E1000

1 credit; Course &amp; exam fee required; Prerequisite – Pre-Calculus, any level

AP Calculus AB is a course that is structured around three concepts: limits, derivatives, and integrals and the Fundamental Theorem of Calculus. Algebraic, numerical, and graphical representations are emphasized throughout the course. Students should have completed a solid foundation of mathematical courses that include, algebra, geometry, trigonometry, and functions before taking this course. Students must be familiar with the properties, graphs, and language of linear, polynomial, rational, exponential, logarithmic, and trigonometric functions in order to be successful with this course. Students are required to take the AP exam. If students make a qualifying score on the AP exam, they may receive the equivalent of college Calculus I credit.

**AP Calculus BC****Course Code** 02125E1000

1 credit; Course &amp; exam fee required; Prerequisite – Pre-Calculus, any level

AP Calculus BC is a course that is structured around four concepts: limits, derivatives, integrals and the Fundamental Theorem of Calculus, and series. AP Calculus BC explores the three main concepts of AP Calculus AB in additional contexts and adds one more concept – series. Algebraic, numerical, and graphical representations are emphasized throughout the course. Students should have completed a solid foundation of mathematical courses that include, algebra, geometry, trigonometry, and functions before taking this course. Students must be familiar with the properties, graphs, and language of linear, polynomial, rational, exponential, logarithmic, and trigonometric functions in order to be successful with this course. This course moves at a much faster pace than the AP Calculus AB course. Students are required to take the AP exam and may receive college credit for Calculus I and II if they make qualifying scores on the two-part exam.

**AP Statistics****Course Code** 02203E1000

1 credit; Course and exam fee required; Prerequisite – Algebra II with Statistics, any level

AP Statistics is a college-level advanced course approved by the College Board Advanced Placement (AP) Program for statistics focusing on introductory, non-calculus-based topics that introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are required to take the AP exam.

**Dual Enrollment Calculus I (MTH 125S)**

**Course Code** 02999C1005

1 credit; Tuition and books required;

Prerequisite – Algebra I with Probability, Geometry with Data Analysis, Algebra II with Statistics, any levels, and must meet dual enrollment entrance requirements

Dual enrollment Calculus I consists of one semester-long college-level advanced course following the curriculum established by Jefferson State Community College. Students pay tuition to the college for this course. Prerequisite high school courses along with dual enrollment requirements must be met for enrollment in the courses.

## Science

### **Biology**

**Course Code** 03051G1000

1 credit; Lab donation requested

Biology covers biology core content standards including scientific process and application skills; cell processes; cell theory; photosynthesis and cellular respiration; genetics; classification; plants; animals; ecology; and biogeochemical cycles. This course fulfills the biology graduation requirement.

### **Biology, Honors**

**Course Code** 03051H1000

1 credit; Lab fee required

Biology, Honors covers advanced work in the biology core content standards including scientific process and application skills; cell processes; cell theory; photosynthesis and cellular respiration; genetics; classification; plants; animals; ecology; and biogeochemical cycles. This course fulfills the biology graduation requirement.

### **AP Biology**

**Course Code** 03056E1000

1 credit; Course and exam fee required; Prerequisite – Chemistry, any level

AP Biology is a college-level advanced course following the curriculum established by the College Board Advanced Placement (AP) Program for biology addressing topics such as scientific process and application skills; molecules; cells; heredity; evolution; organisms; and populations. Students are required to take the AP exam. AP Biology is an appropriate course for 10<sup>th</sup>, 11<sup>th</sup>, or 12<sup>th</sup> grade students.

### **Human Anatomy and Physiology, Honors**

**Course Code** 03053G1000

1 credit; Course fee required; Prerequisite – Chemistry, any level

Anatomy and Physiology covers topics including the scientific process and application skills; anatomical terminology; structure and function of cells, tissues, and body systems; biochemistry; and system regulation and integration. This elective course is appropriate for 11<sup>th</sup> or 12<sup>th</sup> grade students.

### **Environmental Science**

**Course Code** 03003G1000

1 credit; Lab donation requested; Prerequisite – Physical Science or Chemistry, any level

Environmental Science covers topics including scientific process and application skills; natural and human impacts; carrying capacity; renewable and nonrenewable energy resources; properties and importance of water; land-use practices; and composition and erosion of soil. Environmental Science is appropriate for 11<sup>th</sup> or 12<sup>th</sup> grade students.

**AP Environmental Science****Course Code** 03207E1000

1 credit; Course and exam fee required; Prerequisite – Physical Science or Chemistry, any level

College-level advanced course following the curriculum established by the College Board Advanced Placement (AP) Program for environmental science; scientific process and application skills; earth systems and resources; the living world; population; land and water; energy resources and consumption; pollution; global change. AP Environmental Science is appropriate for 11<sup>th</sup> or 12<sup>th</sup> grade students.

**Physical Science****Course Code** 03159G1000

1 credit; Lab donation requested; Prerequisite – Biology, any level

Physical science is a course that provides work in topics such as the scientific process and application skills; periodic table; solutions; bonding; chemical formulas; physical and chemical change; gravitational, electromagnetic, and nuclear forces; motion; energy; energy transformation; electricity and magnetism; nuclear science; and metric units. This course fulfills the physical science graduation requirement.

**Earth and Space Science****Course Code** 03008G1000

1 credit; Lab donation requested; Prerequisite – Biology and a Physical Science, any level

Comprehensive application of all science disciplines with a focus on concepts of the universe and its Stars, Earth and the solar system, history of planet Earth, Earth's materials and systems, plate tectonics, large-scale system interactions, the roles of water in Earth's surface processes, weather and climate, and biogeology; includes integration of engineering, technology and application of science core ideas. This course is appropriate for 11<sup>th</sup> or 12<sup>th</sup> grade students.

**Chemistry****Course Code** 03101G1000

1 credit; Lab fee required; Prerequisite – Biology, any level

Chemistry covers chemistry core content standards including scientific process and application skills; matter classification; carbon chains; periodic table; solutions; kinetic theory; stoichiometry; ideal gasses; physical and chemical changes; and chemical and nuclear reactions. This course fulfills the physical science graduation requirement.



**Chemistry, Honors****Course Code** 03101H1000

1 credit; Lab fee required; Prerequisite – Biology, any level

Chemistry, Honors covers advanced chemistry core content standards including scientific process and application skills; matter classification; carbon chains; periodic table; solutions; kinetic theory; stoichiometry; ideal gasses; physical and chemical changes; and chemical and nuclear reactions. This course fulfills the physical science graduation requirement.

**AP Chemistry****Course Code** 03106E1000

1 credit; Course &amp; exam fee required; Prerequisite-Chemistry &amp; Algebra II with Statistics, any level

AP Chemistry is a college-level advanced course following the curriculum established by the College Board Advanced Placement (AP) Program for chemistry addressing topics such as atomic theory and structure; chemical bonding; nuclear chemistry; gasses; liquids and solids; solutions; reaction types; stoichiometry; equilibrium; kinetics; and thermodynamics. Students are required to take the AP exam. AP Chemistry is a course for 11<sup>th</sup> or 12<sup>th</sup> grade students.

**Physics, Honors****Course Code** 03151H1000

1 credit; Lab fee required; Co-requisite/Prerequisite – Algebra II with Statistics; Prerequisite - Chemistry, any level

Physics covers core content standards including scientific process and application skills; linear, circular, and projectile motion; momentum; planetary motion; quantitative relationships; thermodynamics; wave behavior; light; electrical, magnetic, and gravitational forces; and electricity. Physics is appropriate for 11<sup>th</sup> or 12<sup>th</sup> grade students.

**AP Physics I****Course Code** 03165E1000

1 credit; Course &amp; exam fee required; Prerequisite – Chemistry &amp; Algebra II with Statistics, any level

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion. Students are required to take the AP exam. AP Physics I is appropriate for 11<sup>th</sup> or 12<sup>th</sup> grade students.

## **AP Physics II**

**Course Code** 03166E1000

1 credit; Course and exam fee required; Prerequisite – AP Physics I

AP Physics II is an algebra-based, introductory college-level physics 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. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. Students are required to take the AP exam. AP Physics II is appropriate for 12<sup>th</sup> grade students.

## **Forensic Science and Crime Scene Investigation**

**Course Code** 15055G1000

1 credit; Lab fee required; Prerequisite – Biology, a Physical Science, Geometry with Data Analysis, Algebra I with Probability (or equivalent), any level

May be counted as a science course for graduation credit (Grades 11 or 12) or a CTE course if the student is enrolled in the Law Enforcement pathway. This class may not count for both a science credit and CTE credit.

Forensic Science and Crime Scene Investigation teaches students to apply chemistry, physics, and biology to a suspect, a criminal act or behavior, or a victim. This course prepares students in two distinct concentrations. The Forensic Science portion focuses on working in a crime lab setting as a forensic scientist or technician. Crime Scene Investigations covers the application of the scientific method at a crime scene, including scene processing and the identification and collection of evidence.

## **Dual Enrollment Introduction to Biology I and II (BIO 101/102)**

**Course Code** TBA

1 credit; Tuition and books required;

Prerequisite – Must meet dual enrollment entrance requirements

Introduction to Biology I is the first of a two-course sequence designed for non-science majors. It covers historical studies illustrating the scientific method, cellular structure, bioenergetics, cell reproduction, Mendelian and molecular genetics, and a survey of human organ systems. Introduction to Biology II is the second of a two-course sequence for non-science majors. It covers evolutionary principles and relationships, environmental and ecological topics, classification, and a survey of biodiversity.

Dual enrollment Introduction to Biology consists of two semester long consecutive courses following the curriculum established by Jefferson State Community College. Students pay tuition and books to the college for this course. Prerequisite high school courses along with dual enrollment requirements must be met for enrollment in the courses.

**Dual Enrollment Principles of Biology I and II (BIO 103/104)****Course Code** TBA

1 credit; Tuition and books required;

Prerequisite – Must meet dual enrollment entrance requirements

Principles of Biology I is an introductory course for science majors. It covers physical, chemical, and biological principles common to all organisms. These principles are explained through a study of cell structure and function, cellular reproduction, basic biochemistry, cell energetics, the process of photosynthesis, and Mendelian and molecular genetics. Also included are the scientific method, basic principles of evolution, and an overview of the diversity of life with emphasis on viruses, prokaryotes, and protists. Principles of Biology II is the second of a two-course sequence for science majors. It covers the basic ecological and evolutionary relationships of plants and animals and a survey of plant and animal diversity including classification, morphology, physiology, and reproduction.

Dual enrollment Principles of Biology consists of two semester long consecutive courses following the curriculum established by Jefferson State Community College. Students pay tuition and books to the college for this course. Prerequisite high school courses along with dual enrollment requirements must be met for enrollment in the courses.

## **Social Studies**

### **World History: 1500 to Present**

**Course Code** 04053G1000

1 credit; No fee

This course explores historical development from 1500 to the present, concentrating on the personalities, the ideas and events that have shaped the modern era in Europe, the Western world, Africa, and Asia. Geographic impact, development of civic knowledge/responsibilities, and emerging economic systems within a chronological context are emphasized. This course is for 9<sup>th</sup> graders.

### **World History: 1500 to Present, Honors**

**Course Code** 04053H1000

1 credit; No fee

This course explores the same topics as World History and Geography since 1500, but it has a stronger emphasis on critical thinking and examination of historical texts. The additional workload will include more reading and writing assignments. This course is for 9<sup>th</sup> graders.

### **AP World History: Modern**

**Course Code** 04057E1000

1 credit; Course and exam fee required

AP World History: Modern is an introductory college-level modern world history course. Students cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. This course is for 9<sup>th</sup> graders. Students are required to take the AP exam.

### **United States History I: Beginnings to the Industrial Revolution**

**Course Code** 04102G1000

1 credit; No fee

This course is the first half of a comprehensive two-year study of American history and geography. In tenth grade, students study the historic development of American ideas and institutions from the Age of Exploration and Discovery to the turn of the century. While focusing on political and economic history, students will examine American culture through a chronological survey of major issues, movements, people, and events in United States and Alabama history. This course is for 10<sup>th</sup> graders.

**United States History I: Beginnings to the Industrial Revolution, Honors****Course Code** 04102H1000

1 credit; No fee

This course is the first half of a comprehensive two-year study of American history and geography. US History I, Honors provides advanced work in the chronological survey of major events and issues: colonization; American Revolution; development of political system and distinct culture; slavery; reform movements; sectionalism; Civil War; Reconstruction; Alabama's history and geographic changes that have influenced aspects of life during and after events. This course is for 10<sup>th</sup> graders.

**United States History II: Industrial Revolution to the Present****Course Code** 04103G1000

1 credit; No fee

Eleventh grade U.S. History focuses on twentieth century America and beyond. Knowledge and understanding gained during previous years of study provide the foundation for the critical analysis required in this course. In the eleventh grade, students cover the historic development of American ideas and institutions from the turn of the century to the current day. Students will focus on political and economic history and examine our American culture through a survey of major issues, movements, people, and events in United States and Alabama history. This course is for 11<sup>th</sup> graders.

**United States History II: Industrial Revolution to the Present, Honors****Course Code** 04103H1000

1 credit; No fee

United States History II, Honors provides advanced work in the chronological survey of major events and issues: industrialization; Progressivism; foreign policy; World War I; the Great Depression; World War II; post-war United States; contemporary United States; Alabama's history and geographic changes that have influenced aspects of life during and after events. This course is for 11<sup>th</sup> graders.

**AP United States History****Course Code** 04104E1000

1 credit; Course and exam fee required

AP United States History is a college-level advanced course following the curriculum established by the College Board Advanced Placement (AP) Program for United States history. Students will study the cultural, economic, political, and social developments that have shaped the United States from circa 1491 to present. Students will analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments. Students are required to take the AP exam at the end of the course. This course is for 11<sup>th</sup> graders.

**Dual Enrollment United States History I (HIS 201)****Course Code** 04999C1009

1 credit; Tuition and books required;

Prerequisite – Must meet dual enrollment entrance requirements

This course surveys United States history during colonial, Revolutionary, early national and antebellum periods. It concludes with the Civil War and Reconstruction.

Dual enrollment United States History I consists of one semester long course following the curriculum established by Jefferson State Community College. Students pay tuition and books to the college for this course. Prerequisite high school courses along with dual enrollment requirements must be met for enrollment in the courses.

**Dual Enrollment United States History II (HIS 202)****Course Code** 04999C1010

1 credit; Tuition and books required;

Prerequisite – Must meet dual enrollment entrance requirements

This course is a continuation of HIS 201; it surveys United States history from the Reconstruction era to the present.

Dual enrollment United States History II consists of one semester long course following the curriculum established by Jefferson State Community College. Students pay tuition and books to the college for this course. Prerequisite high school courses along with dual enrollment requirements must be met for enrollment in the courses.

**United States Government****Course Code** 04151G0500

.5 credit; No fee

Government presents topics relating to the origins, functions, and branches of the U. S. government including representative democracy; federalism; political/civic life; analysis of the Constitution, Bill of Rights, and other relevant documents; and foreign policy. This course is for 12<sup>th</sup> graders. Per ALSDE, students must pass the Alabama Civics Test at the end of the course to be eligible for graduation.

**U.S. Government, Honors****Course Code** 04151H0500

.5 credit; No fee

Government, Honors presents advanced work in topics relating to the origins, functions, and branches of the U. S. government including representative democracy; federalism; political/civic life; analysis of the Constitution, Bill of Rights, and other relevant documents; and foreign policy. This course is for 12<sup>th</sup> graders. Per ALSDE, students must pass the Alabama Civics Test at the end of the course to be eligible for graduation.

**AP United States Government & Politics****Course Code** 04157E1000

.5 credit; Course and exam fee required

AP U.S. Government & Politics is a college-level advanced course following the curriculum established by the College Board Advanced Placement (AP) Program for U.S. Government and Politics. Students will study the key concepts and institutions of the political system and culture of the United States. Students are required to take the AP Exam. This course is for 12<sup>th</sup> graders. Per ALSDE, students must pass the Alabama Civics Test at the end of the course to be eligible for graduation.

**Economics with embedded Career Prep B****Course Code** 04201G0500

.5 credit; No fee

Economics presents the basic elements of economics including comparative economic systems and economic theories; role of the consumer; business and labor issues; functions of government structure of the U. S. banking system; role of Federal Reserve Bank. This course is for 12<sup>th</sup> graders.

**Economics, Honors with embedded Career Prep B****Course Code** 04201H0500

.5 credit; No fee

Economics, Honors provides advanced work in the basic elements of economics including comparative economic systems and economic theories; role of the consumer; business and labor issues; functions of government; structure of U. S. banking system; role of Federal Reserve Bank. This course is for 12<sup>th</sup> graders.

**AP Microeconomics with embedded Career Prep B****Course Code** 04203E1000

.5 credit; Course and exam fee required

AP Microeconomics is a college-level advanced course following the curriculum established by the College Board Advanced Placement (AP) Program for microeconomics including basic economic concepts; the nature and functions of product markets; factor markets; market failure and the role of government. Students are required to take the AP Exam. This course is for 12<sup>th</sup> graders.

## **Physical Education & Health**

### **Beginning Kinesiology**

**Course Code** 08017G1000

1 credit; Lab donation requested

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, and 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.

### **Varsity Athletics with embedded Beginning Kinesiology**

**Course Code** per the specific sport

1 credit; Lab fee required

Varsity Athletics is a restricted elective course only for high school athletes. This course offers development of skills and personal potential for student athletes interested in improving their performance or preparing for further competition at the collegiate or professional level. The standards address more than the sport itself. Coaches will assist athletes in learning and achieving higher levels of performance and physical literacy.

### **Strength and Conditioning**

**Course Code** 08005G1000

1 credit; Lab donation requested; Prerequisite – Beginning Kinesiology or its equivalent/substitution

Strength and Conditioning is an elective course that will give students the tools and resources needed to be physically fit and healthy for a lifetime. This course is a stand-alone course open to all students. It is not part of, nor may it be combined with, varsity athletics. The variety of exercises, techniques, and equipment used will allow students to experience many ways to exercise and “work out.” Students will learn how to create their own health and fitness plans to work toward specific health, fitness, and career goals.

### **Life Sports: Individual, Dual, and Team**

**Course Code** 08003G1000

1 credit; Lab donation requested; Prerequisite – Beginning Kinesiology or its equivalent/substitution

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, and encourage students to participate in physical activity for life.



**Sports Officiating****Course Code** 08019G1000

1 credit; Lab fee required; Prerequisite – Beginning Kinesiology or its equivalent/substitution; student must be 16 or turn 16 during the school year

Sports Officiating is an elective course that focuses on the professional philosophy and professional requirements for officiating athletic contests in volleyball, football, wrestling, basketball, soccer, baseball, softball, and track and field. Upon completion of the course, students will be offered the option of taking certification exams for any of the sport components in order to become a restricted certified official with the Alabama High School Athletic Association (AHSAA) at the middle/junior high school level.

**Health Education****Course Code** 08051G0500

.5 credit; No fee

Health Education includes recent and reliable information on the promotion of wellness, the reduction of health risks, the prevention of disease, and the management of health problems. Students will be afforded the opportunity to make responsible decisions concerning their own personal health and the health of others and to develop and demonstrate a positive lifestyle of knowledge, attitudes, and behaviors. This course meets the standards set in the state course of study for the Health graduation requirement.

## **Career Preparedness**

**All students must take both Career Preparedness A and B as a graduation requirement. All on-campus CTE foundation courses have A embedded and all on-campus economics courses have B embedded.**

### **Career Preparedness A (can be taken online)**

**Course Code** 22153G0512

.5 credit; No fee

This course is embedded in all foundational Career Technical courses taught on campus. See the Career Technical course list for specific classes.

The course prepares students with knowledge and skills in the areas of career development and academic planning and computer skill application. This course is a prerequisite to Career Preparedness-B. The required 20-hour online experience can be met by successfully completing both Career Preparedness A and Career Preparedness B.

### **Career Preparedness B (can be taken online)**

**Course Code** 22153G0522

.5 credit; No fee

This course is embedded in all Grade 12 economics courses with the exception of online courses.

The course prepares students with knowledge and skills in the areas of career development and academic planning 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.

## Electives

### **AP Seminar**

**Course Code** 22110E1000

1 credit; Course and exam fee required

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. This course cannot count as one of the 4 required English credits.

### **AP Research**

**Course Code** 22112E1000

1 credit; Course and exam fee required; Prerequisite - AP Seminar

AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000–5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense. This course cannot count as one of the 4 required English credits.

### **ACT Prep**

**Course Code** 23992X1000

.5 credit; Lab fee required

This course provides students necessary test taking skills and content knowledge to aid in improving their ACT scores and will include diagnostic testing, direct instruction, and practice ACT tests.

**Psychology****Course Code** 04254G1000

.5 credit; No fee

Psychology presents the history of psychological inquiry; methods of scientific research; human development; sensation and perception; motivation and emotion; states of consciousness; social psychology, cognition; intelligence and assessment; personality theories; stress; and mental disorders and treatments. This course is available to 11<sup>th</sup> and 12<sup>th</sup> grade students only.

**AP Psychology****Course Code** 04256E1000

1 credit; Course and exam fee required

College-level advanced course following the curriculum established by the College Board Advanced Placement (AP) Program for psychology. The AP Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatments of psychological disorders, and social psychology. Throughout the course, students will analyze data from research studies and effectively communicate their ideas. This course is available to 11<sup>th</sup> and 12<sup>th</sup> grade students only. Students must take the AP exam.

**Dual Enrollment General Psychology (PSY 200)****Course Code** 04999C1018

1 credit; Tuition and books required

Prerequisite: Students must meet all dual enrollment requirements.

General Psychology is a one-semester survey of behavior with an emphasis on psychological processes. This course includes the biological bases of behavior, thinking, emotion, motivation, and the nature and development of personality. Students pay tuition and books to the college for this course. This course is available to 10<sup>th</sup> - 12<sup>th</sup> grade students.

**Sociology****Course Code** 04258G0500

.5 credit; No fee

Sociology presents topics including culture and society; social inequalities; social institutions; and social change. This course is available to 11<sup>th</sup> and 12<sup>th</sup> grade students only.

**Dual Enrollment Fundamentals of Public Speaking (SP107)****Course Code** 11999C1004

1 credit; Tuition and books required

Prerequisite: Students must meet all dual enrollment requirements.

This course is a one-semester performance course that includes the principles of human communication: intrapersonal, interpersonal, and public. It surveys current communication theory and provides practical application. Students pay tuition and books to the college for this course. This course is available to 10<sup>th</sup> - 12<sup>th</sup> grade students.

**Yearbook****Course Code** 11104X1000

1 credit; No fee; application required

The course produces *Warrior*, the student yearbook publication. Students are selected for this course based on their applications.

**Creative Writing****Course Code** 01104G0500

.5 credit; No fee

This class provides students opportunities to write creative, original works of prose, poetry and drama. Students will learn to critically evaluate their own work and the works of others. Students may submit their works for publication and competitions. This course is appropriate for students in 9<sup>th</sup>-12<sup>th</sup> grade. Creative Writing cannot count as one of the 4 required English credits.

**Film vs. Novel****Course Code** 01099G1000

1 credit; No fee

This course is designed to compare and contrast famous novels that have been made into films. Students will look at the different aspects that go into converting written literature into a screenplay. Students will look at classic literature, as well as modern literature and film. Film vs. Novel cannot count as one of the 4 required English credits.

**Spanish & International Cultures Overview****Course Code** 24099E1000

.5 credit; No fee

This elective course will focus on understanding, experiencing, and comparing Spanish speaking cultures around the world. It will also introduce a variety of other international cultures. Students will be introduced to basic listening, writing, reading, and speaking skills in

Spanish that will assist them in daily situational contexts. This course can count toward a .5 world language credit.

### **Oral Communication**

**Course Code** 01155G1000

.5 credit; No fee

This elective course will be a comprehensive communications course that will address public speaking, rhetorical strategies, presentations (both verbal and visual/digital), social cues, and skills for job interviews. Students will also learn the importance of developing a positive and effective online presence (e.g. social media platforms). Communication cannot count as one of the 4 required English credits.

### **Work Based Learning (Cooperative Education)**

**Course Code** 22998G1014, 22998G1024, 22998G1034, 22998G1044

1 credit each; lab donation requested; Prerequisite – Students must have completed at least 1 CTE course or Career Preparedness A&B

A one-credit work-based experience requiring a minimum of 140 continuous and successful hours of employment performed under the supervision of a workplace mentor and the work-based learning/cooperative education coordinator.

### **Driver Education**

**Course Code** 08152G1000

.5 Credit; Fee required; Prerequisite – Students must have their driver's permit

The Driver Education program is designed to give students the opportunity to develop good driving skills. The primary emphasis is behind the wheel experience and safety practices. The course also includes a classroom phase which includes a boater safety course and safe driving theory. Students must log 200 hours of real-time driving with a parent or guardian outside of class, so it is essential that students already have their driver's permit before taking the course.

### **Introduction to Art History**

**Course Code** 05151G1000

.5 credit; No lab fee

This course is designed for students interested in the development and history of visual arts (painting, sculpture, architecture). It does not include the actual creation of artwork. Students will study objects of art and consider them within their time period. They will also analyze the authorial origins of artwork, including who created a particular piece, when, where, and for what reason. Another major part of art history is analyzing the symbolism in artwork. For instance, students will identify the visual elements of an object and interpret its meaning based on the timeframe in which it was created. This course may count as a fine arts .5 credit.

**Dual Enrollment Music Appreciation (MUS 101)**

**Course Code** TBA

1 credit; Tuition and books required

Prerequisite: Students must meet all dual enrollment requirements.

This course is designed for non-music majors and requires no previous musical experience. It is a survey course that incorporates several modes of instruction including lecture, guided listening and similar experiences involving music. The course will cover a minimum of three stylistic periods, provide a multicultural perspective, and include both vocal and instrumental genres. Upon completion, students should be able to demonstrate a knowledge of music fundamentals, the aesthetic/stylistic characteristics of historical periods, and an aural perception of style and structure in music. This course is available to 10<sup>th</sup> - 12<sup>th</sup> grade students.

## **Fine Arts Academies**

### **Dance Concentration**

#### **Dance I with embedded Beginning Kinesiology**

**Course Code** 05003G10D1

1 credit; Lab fee required

Dance I is a performance based class dedicated to the study and performance of multiple dance genres such as: ballet, jazz, hip hop, contemporary, lyrical, and more. This class is a beginner level for those who have little to no dance experience. Recital performances are a requirement of this class. This course is appropriate for 9<sup>th</sup> through 12<sup>th</sup> grade students.

#### **Dance II with embedded Beginning Kinesiology**

**Course Code** 05003G10D2

1 credit; Lab fee required; Prerequisite – Dance I or teacher recommendation; audition may be required

Dance II is a performance based class dedicated to the study and performance of multiple dance genres such as: ballet, jazz, hip hop, contemporary, lyrical, and more. This class is an intermediate level for those who have taken Dance I or have had experience in a dance class. Selection is by placement audition and/or teacher recommendation. Recital performances are a requirement of this class. This course is appropriate for 9<sup>th</sup> through 12<sup>th</sup> grade students.

#### **Dance III with embedded Beginning Kinesiology**

**Course Code** 05003G1003

1 credit; Lab fee required; Prerequisite – Dance II or teacher recommendation; audition may be required

Dance III is a performance based class dedicated to the study and performance of multiple dance genres such as: ballet, jazz, hip hop, contemporary, lyrical, and more. This class is an advanced level class for those who have taken Dance II or have a great deal of dance experience. Selection is by placement audition and/or teacher recommendation. Recital performances are a requirement of this class. This course is appropriate for 9<sup>th</sup> through 12<sup>th</sup> grade students.

#### **Dance IV (Independent Study)**

**Course Code** 05049G1010

1 credit; Lab fee required; Prerequisite – Dance III or teacher recommendation; audition may be required

Dance IV is designed to refine and demonstrate concepts focused on a specific area of emphasis within dance. It enables students to collaboratively and independently refine specific work of their choice from the range of forms within dance. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular form or style, to explore a topic in greater detail, or to develop more advanced skills.



## **Theatre Concentration**

### **Theatre I**

**Course Code** 05052G1001

.5 credit; Lab fee required

Theatre I helps students learn all about the fundamentals of theatre, mostly acting, to build skills for further study in theatrical arts as well as life. Students will learn the techniques of oral interpretation for theatre as well as public speaking. Development of basic movement, pantomime, voice and diction, comedic and dramatic acting, and technical skills are the basis of this course. This course is appropriate for 9<sup>th</sup> through 12<sup>th</sup> grade students.

### **Theatre II**

**Course Code** 05052G1002

1 credit; Lab fee required; Prerequisite – Theatre I or approval of the instructor

Theatre II - Production emphasizes directing and acting techniques, lighting, sound, make-up, stage setting, interpretive skills, and leadership development in theatre. Reading, reviewing, and producing plays, skits, and small shows are the focus of this course. Students will produce a one-act play to showcase to the community. Students will have the opportunity to participate in theatrical productions throughout the school year, as well as work on the technical crew for THS production. This course is appropriate for 10<sup>th</sup> through 12<sup>th</sup> grade students.

### **Theatre III**

**Course Code** 05052G1003

1 credit; Lab fee required; Prerequisite – Theatre II and audition

Theatre III – Acting is designed for advanced students placing emphasis on acting, directing, casting, blocking, sound and lighting techniques, set design and production organization. Students are required to be a part of theatrical competitions and participate in theatrical productions throughout the school year as well as auditioning for each theatre production. An audition process conducted by the instructor is a prerequisite for this course. This course is appropriate for 11<sup>th</sup> or 12<sup>th</sup> grade students.

### **Acting Technique (Theatre IV)**

**Course Code** 05053G1002

1 credit; Lab fee required; Prerequisite – Theatre III; audition is required

Acting Technique is an advanced theatrical course which includes the detailed study of directing and performing including method acting techniques and script interpretation and production organization. Students will also participate in several scholarship audition opportunities with colleges and universities. Students are required to be a part of theatrical competitions and participate in theatre productions throughout the year. An audition process conducted by the instructor is a prerequisite for this course. This course is appropriate for 12<sup>th</sup> grade students.

## **Technical Theatre Production**

**Course Code** 05056G1001

1 credit; Lab fee required; Prerequisite – Theatre II

Technical Theatre Production focuses on the fundamentals of technical theater and theatrical production. Students are taught the basic techniques of theatrical set design, costume design, lighting design, set construction, set painting, stage management, general theater maintenance, and scene shop organization. Students will demonstrate their knowledge by designing all aspects of a show. This course requires that students work with inherently dangerous power tools, power saws, and additional theatrical production equipment and supplies. This course is appropriate for 11<sup>th</sup> or 12<sup>th</sup> grade students.

## **Music Concentration**

### **Choral Music**

#### **Men's Chorus I and Women's Chorus I**

**Course Code** 05111G10M1, 05111G10W1

1 credit; Lab fee required

The Women's and Men's Concert Choirs are a prerequisite for Harmonettes and Madrigals. These courses are designed to give students an opportunity to experience the joy of singing together, and to provide an opportunity for individual growth and development through the choral experience. Students will learn a variety of songs, from unison to two and three part singing with an emphasis placed on vocal and choral development. They will also learn basic theory concepts of music and sight reading. Performances are required. This course is appropriate for 9<sup>th</sup> through 12<sup>th</sup> grade students.

#### **A Capella Chorus (Harmonettes) I-V**

**Course Code** 05111G10A1, 05111G10A2, 05111G10A3, 05111G10A4, 05111G10A5

1 credit; Lab fee required; Prerequisite – Chorus I and audition by the director

Harmonettes is a group of advanced singers who are selected through the process of a voice audition, sight singing ability, academic excellence, overall good attitude, and ambition to work hard in the group as well as their other academics. The focus is on four-part acapella music for women/men primarily of the Barbershop style while helping to build a strong sense of confidence in their personal vocal abilities, as well as stage presence. Performances are required. This course is appropriate for 10<sup>th</sup> through 12<sup>th</sup> grade students.

#### **Chamber Choir (Madrigals) I-V**

**Course Code** 05111G10C1, 05111G10C2, 05111G10C3, 05111G10C4, 05111G10C5

1 credit; Lab fee required; Prerequisite - one year previous choir (either middle or high school) and audition by the director

Chamber choir is the advanced, auditioned ensemble at Thompson High School. Students perform advanced SATB choral literature in multiple languages and genres from multiple time

periods. Significant emphasis is placed on musical literacy and independence to ensure the highest levels of performance proficiency. Students are also expected to maintain the highest academic and personal standards for membership as this ensemble is a visible part of Thompson High School. Multiple required performances outside of the school day and some travel is required.

### **Show Choir**

Show choir is an extracurricular performance opportunity for any THS student. This group performs popular music with full choreography. After school rehearsals are required. Contact the Choir Director for more information and placement.

### **AP Music Theory**

**Course Code** 05114E1000

1 credit; Exam and course fee required; Prerequisite: Available to Juniors and Seniors only, previous formal music experience (band, choir, or piano/voice/guitar lessons) AND approval by the instructor based on a diagnostic placement; Co-requisite: must be enrolled in any music class (choir or instrumental)

AP Music Theory is an advanced music course that is equivalent to a semester and a half of College Level Music Theory. This is not a performance based class, but a lecture/lab based class designed to teach ear training, sight-singing, harmonic analysis, and rules of composition in the 18th century Common Practices Style. Students will be required to take the AP exam in the spring.

## **Instrumental Music & Visual Ensemble**

| <b>Fine Arts: Instrumental Music</b>   |   |                          |
|--|---|--------------------------|
| <b>Concert Ensembles</b>   |   |                          |
| <b>Course</b>  | <b>Description</b>                              | <b>Audition Required</b> |
| Concert Band I-V   | Entry Level Ensemble                            | No                       |
| Symphonic Band I-V   | Intermediate ensemble                           | Yes                      |
| Wind Ensemble I-V  | Advanced Ensemble                               | Yes                      |
| Thompson Philharmonic (Orchestra I-II)   | Entry and Intermediate Level Ensembles          | No                       |
| <b>Additional Specialty Courses</b>  |   |                          |
| <i>(Students must be enrolled in a concert ensemble in order to take an additional specialty course listed below.)</i> |   |                          |
| Band Tech I-IV   | Individual practice/chamber music opportunities | No                       |

|                                |   |                            |
|--------------------------------|---|----------------------------|
| Jazz Tech Band (Jazz Lab) I-IV | Entry Level Ensemble  | No                         |
| Jazz Band (Jazz Ensemble) I-IV | Advanced Ensemble   | Yes                        |
| AP Music Theory                | Any student in a choral or instrumental course  | No                         |
| Marching Band I-IV             | Extracurricular open to concert ensembles and visual ensemble   | As required by instructors |
| <b>Additional Information</b>  |   |                            |
| Audition Groups                | Auditions will take place in April and/or May. Results will be posted at the end of the spring semester.  |                            |
| AP Music Theory                | AP Music Theory is open to any student participating in a music class at THS. For example, students in choir or a concert instrumental ensemble.  |                            |
| Marching Band                  | Marching Band is an extracurricular activity open to students in the concert ensembles and members of the visual ensemble. Marching band does not march during the school day, but practices musical pieces or visual ensemble routines in class. Students should register for the visual ensemble class or their concert ensemble class. <b>Participating in two seasons of marching band serves as the Physical Education credit required for graduation.</b> |                            |
| Specialty Courses              | Students must be enrolled in a concert ensemble to participate.   |                            |

### **Concert Band I-V**

**Course Code 1<sup>st</sup> Semester** 05103G0501, 05103G0502, 05103G0503, 05103G0504, 05103G0505

**Course Code 2<sup>nd</sup> Semester** 05102G0501, 05102G0502, 05102G0503, 05102G0504, 05102G0505

1 credit; Lab fee required

Concert Band is a beginning/intermediate band course with working fundamental musical techniques/methods in alignment with the NAFME National Standards. Concert Band is a performance based class dedicated to the study and performance of modern wind band music on the grade 2 - 3 level. No audition is required. Concert performances are a requirement of this class. This course is appropriate for 9<sup>th</sup> through 12<sup>th</sup> grade students.

### **Symphonic Band I-V**

**Course Code 1<sup>st</sup> Semester** 05103G0501, 05103G0502, 05103G0503, 05103G0504, 05103G0505

**Course Code 2<sup>nd</sup> Semester** 05106G05I1, 05106G05I2, 05106G05I3, 05106G05I4, 05106G05I5  
1 credit; Lab fee required; audition required

Symphonic Band is an intermediate/advanced band course with working fundamental musical techniques/methods in alignment with the NAFME National Standards. Symphonic Band is a performance based class dedicated to the study and performance of modern wind band literature on the grade 3 - 4 level. Selection is by audition and/or teacher recommendation. Concert performances are a requirement of this class. This course is appropriate for 9<sup>th</sup> through 12<sup>th</sup> grade students.

### **Wind Ensemble I-V**

**Course Code 1<sup>st</sup> Semester** 05103G0501, 05103G0502, 05103G0503, 05103G0504, 05103G0505

**Course Code 2<sup>nd</sup> Semester** 05109G05W1, 05109G05W2, 05109G05W3, 05109G05W4, 05109G05W5

1 credit; Lab fee required; audition required

Wind Ensemble is an advanced/higher education band course with working fundamental musical techniques/methods in alignment with the NAFME National Standards. Wind Ensemble is a performance based class dedicated to the study and performance of modern wind band literature on the grade 5 -6 level. Selection is by audition and/or teacher recommendation. Concert performances are a requirement of this class. This course is appropriate for 9<sup>th</sup> through 12<sup>th</sup> grade students.

### **Thompson Philharmonic (Orchestra I-III)**

**Course Code** 05104G1001, 05104G1002, 05104G1003

1 credit; Lab fee required

This is a one-credit course designed for music students to experience instrumental music in a setting of only orchestra instruments. Students will develop a characteristic tone and engage in the processes of creating, performing and responding as related to instrumental music, while employing the concepts of timbre, rhythm, melody, harmony, form and expression. Students will study works of orchestral music and learn to connect musical experiences to other cultures and disciplines within and outside of the arts. This course is appropriate for 9<sup>th</sup> through 12<sup>th</sup> grade students.

### **Jazz Band (Jazz Ensemble) I-IV**

**Course Code** 05105G1001, 05105G1002, 05105G1003, 05105G1004, 05105G1005

1 credit; Lab fee required; audition required;

Co-requisite – Concert, Symphonic, or Wind Ensemble

Jazz Band is an advanced/higher education jazz big band course with working fundamental musical jazz techniques/methods in alignment with the NAFME National Standards. for students who would like to pursue the study of music in the jazz idiom. Some improvisation required. Must be enrolled in Concert Band, Symphonic Band, or Wind Ensemble. Selection is by audition and/or teacher recommendation. Students may participate in competitions and concert performances. This course is appropriate for 9<sup>th</sup> through 12<sup>th</sup> grade students.

**Jazz Tech Band (Jazz Lab) I-IV****Course Code** 05105G1001, 05105G1002, 05105G1003, 05105G1004, 05105G1005

1 credit; Lab fee required; Co-requisite – Concert, Symphonic, or Wind Ensemble

Jazz Band is a beginning/intermediate jazz big band course with a working fundamental musical jazz techniques/methods in alignment with the NAFME National Standards. It is for students who would like to pursue the study of music in the jazz idiom. Some improvisation required. Must be enrolled in Concert Band, Symphonic Band, or Wind Ensemble. No audition is required. This course is appropriate for 9<sup>th</sup> through 12<sup>th</sup> grade students.

**Band Technical I-IV****Course Code** 05149G10I1, 05149G10I2, 05149G10I3, 05149G10I4

1 credit; Lab fee required; Co-requisite – Concert, Symphonic, or Wind Ensemble

Band Technical is a private study and preparatory class for student lessons, all state, honor band(s), scholarship(s), and individual improvement course. It is for students who would like to pursue an individual practice program as well as chamber music opportunities. Must be enrolled in Concert Band, Symphonic Band, or Wind Ensemble. This course is appropriate for 9<sup>th</sup> through 12<sup>th</sup> grade students considering a wide range of postsecondary educational options.

**Visual Ensemble I-IV (Majorettes, Dance Team, Color Guard)****Course Code** 05002G1001, 05002G1002, 05002G1003, 05049G1003

1 credit; Lab fee required

Visual Ensemble includes the majorettes, dance team, and color guard. This class facilitates our visual ensemble group practice, choreography, and technique development throughout the year. Performances are a requirement of this class. This course is appropriate for 9<sup>th</sup> through 12<sup>th</sup> grade students.

**AP Music Theory****Course Code** 05114E1000

1 credit; Exam and lab fee required; Prerequisite: Available to Juniors and Seniors only, previous formal music experience (band, choir, or piano/voice/guitar lessons) AND approval by the instructor based on a diagnostic placement; Co-requisite: must be enrolled in any music class (choir or instrumental)

AP Music Theory is an advanced music course that is equivalent to a semester and a half of College Level Music Theory. This is not a performance based class, but a lecture/lab based class designed to teach ear training, sight-singing, harmonic analysis, and rules of composition in the 18th century Common Practices Style. Students will be required to take the AP exam in the spring.

**Dual Enrollment Music Appreciation (MUS 101)****Course Code** 05999C1026

1 credit; Tuition and books required

Prerequisite: Students must meet all dual credit requirements.

This course is designed for non-music majors and requires no previous musical experience. It is a survey course that incorporates several modes of instruction including lecture, guided listening and similar experiences involving music. The course will cover a minimum of three stylistic periods, provide a multicultural perspective, and include both vocal and instrumental genres. Upon completion, students should be able to demonstrate a knowledge of music fundamentals, the aesthetic/stylistic characteristics of historical periods, and an aural perception of style and structure in music. This course is available to 10<sup>th</sup> - 12<sup>th</sup> grade students.

**Visual Arts Concentration****Suggested Pathways**

| <b>Concentration</b>  | <b>Introduction Course</b>  | <b>Specialization Course</b> | <b>Specialization Course</b> | <b>Specialization Course</b>                             |
|---|-----------------------------|------------------------------|------------------------------|--|
| <b>2D Design</b><br>(drawing, painting, collage, photography)       | Introduction to 2D Design I | 2D Design II                 | 2D Design III                | AP 2D Art & Design<br><b>OR</b><br>AP Studio Art Drawing |
| <b>3D Design</b><br>(sculpture, clay, plaster, wood, various media) | Introduction to 3D Design I | 3D Design II                 | 3D Design III                | AP 3D Art & Design                                       |
| <b>Design Crafts</b><br>(crafts and surface design)                 | Introduction to Crafts I    | Crafts II                    | Crafts III                   | AP 2D Art & Design<br><b>OR</b><br>AP 3D Art & Design    |
| <b>Art History</b><br>(development and history of visual arts)      | Introduction to Art History |                              |                              |  |

**Introduction to 2D Design I****Course Code** 05195G1021

1 credit; Lab fee required

Students' emphasis will be on observational drawing skills using traditional materials. This course provides students with a foundation in the two-dimensional design processes, art

criticism, aesthetics, and art history. Students will address design problems to express ideas using a variety of traditional and contemporary media, while effectively applying the elements of art and principles of design. Safe practices and proper use of tools, equipment and materials are emphasized.

### **2D Design II**

**Course Code** 05195G1022

1 credit; Lab fee required; Prerequisite – Introduction to 2D Design I or approval of instructor

Students' emphasis will be on design and creative problem solving with various materials such as printing, photography, and collage. Through exploration and experimentation, this course increases development of core concepts in design and provides students with a foundation in the two-dimensional design processes, art criticism, aesthetics, and art history. Students will address design problems to express ideas using a variety of traditional and contemporary media, while effectively applying the elements of art and principles of design. Safe practices and proper use of tools, equipment and materials are emphasized.

### **2D Design III**

**Course Code** 05195G1023

1 credit; Lab fee required; Prerequisite – Introduction to 2D Design II or approval of instructor

Students' emphasis will be on color theory using colored pencils, paints, pastels, and other various media. Students will also begin learning to build a portfolio and participate in sustained investigation. Through continued exploration and experimentation, this course provides students with a comprehensive study in the two-dimensional design studio processes, art criticism, aesthetics, and art history to provide a deeper understanding and appreciation of two-dimensional design. Students will address design problems to express ideas using a variety of traditional and contemporary media, while effectively applying the elements of art and principles of design. Safe practices and proper use of tools, equipment and materials are emphasized.

### **Introduction to 3D Design I**

**Course Code** 05195G1031

.5 credit; Lab fee required

This course is a hands-on, beginner's exploration of the third dimension in art. This semester will be devoted to creating in various media, such as clay and plaster, investigating many different approaches to sculpture. Assignments will include a thorough understanding of Art Elements and Design Principles.

### **3D Design II**

**Course Code** 05195G1032

.5 credit; Lab fee required; Prerequisite – Introduction to 3D Design I or approval of the instructor



This course is a further exploration of the third dimension in art. This semester the students will be creating in advanced media such as wood carving and Plexiglas, as well as further exploration in clay. Assignments will include each of the four methods of sculpting: casting, carving, modeling and construction.

### **3D Design III**

**Course Code** 05195G1033

1 credit; Lab fee required; Prerequisite – 3D Design II or approval of the instructor

This advanced class is for the dedicated, task oriented student who is possibly moving toward an Advanced Placement Portfolio. This class includes a mixture of class assignments and independent study, working with professional tools and media. Emphasis will be placed on building a body of artwork that could be used in an AP Portfolio.

### **Design Crafts: Introduction to Crafts I**

**Course Code** 05165G1001

.5 credit; Lab fee required

Crafts is an introductory level course designed to introduce students to basic concepts of 2D and 3D techniques in paper, cloth, and other mixed media. Students will learn techniques in measuring, gluing, cutting and sewing. The curriculum is broad and challenging, with a central focus on mastery of tools, design techniques, and proper handling of equipment and safety.

### **Design Crafts: Crafts II**

**Course Code** 05165G1002

.5 credit; Lab fee required; Prerequisite – Crafts I or approval of the instructor

This course will allow students to expand on their skills from the previous course, with exploration in real-world applications of design elements. Students will apply these elements in projects in cold and warm glass techniques and mold-making processes to pour metal for 3-D forms, jewelry, and ceramics.

### **Design Crafts: Crafts III**

**Course Code** 05165G1003

1 credit; Lab fee required; Prerequisite – Crafts II or approval of the instructor

Through exploration and experimentation, this course provides students with a more in depth study of foundations in functional art including the history of crafts, crafts of various cultures, studio practice in a variety of crafts media, safe studio practices, proper care and storage of supplies and equipment, aesthetics, criticism, and elements and principles of design.

### **AP 2-D Art and Design**

**Course Code** 05174E1000

1 credit; Lab fee required; AP Exam Fee required

This advanced course engages students in the most advanced level of artistic development and technical proficiency. Students at this level understand multifaceted components of solving visual arts problems. A prepared portfolio of original works will be submitted at the end of the year for Advanced Placement college credit. Students are required to take the AP Exam. This course is appropriate for 11<sup>th</sup> or 12<sup>th</sup> grade students.

### **AP 3-D Art and Design**

**Course Code** 05175E1000

1 credit; Lab fee required; AP Exam Fee required

AP 3-D Art and Design is a course designed to fulfill the requirements of the College Board program of study. It is a challenging and rigorous course that has at its core the generation of a substantial body of very high quality works of art. The coursework is expected to be at the college level in terms of its quality in subject, content and form. Students are required to take the AP Exam. This course is appropriate for 11<sup>th</sup> or 12<sup>th</sup> grade students.

### **AP Studio Art Drawing**

**Course Code** 05172E1000

1 credit; Lab fee required; AP Exam Fee required

This course is an introductory college-level drawing course. Students refine and apply drawing skills to ideas they develop throughout the course. A prepared portfolio of original works will be submitted at the end of the year for Advanced Placement college credit. Students are required to take the AP Exam. This course is appropriate for 11<sup>th</sup> or 12<sup>th</sup> grade students.

### **Introduction to Art History**

**Course Code** 05151G1000

.5 credit; No fee

This course is designed for students interested in the development and history of visual arts (painting, sculpture, architecture). It does not include the actual creation of artwork. Students will study objects of art and consider them within their time period. They will also analyze the authorial origins of artwork, including who created a particular piece, when, where, and for what reason. Another major part of art history is analyzing the symbolism in artwork. For instance, students will identify the visual elements of an object and interpret its meaning based on the timeframe in which it was created. This course may count as .5 credit for fine arts elective.

## **World Languages Academy**

### **Spanish I**

**Course Code** 24052G1000

1 credit; Lab donation requested

Spanish I focuses on listening and speaking skills including understanding and responding to simple directions, expressions of courtesy, and questions related to daily routines; reading and writing skills including words and phrases used in basic situational contexts; and beginning understanding of Spanish-speaking cultures. This course is appropriate for 9<sup>th</sup> through 12<sup>th</sup> grade students.

### **Spanish II**

**Course Code** 24053G1000

1 credit; Lab donation requested; Prerequisite – Spanish I

Spanish II focuses on listening and speaking skills including understanding and responding to directions, commands, and questions; reading with comprehension of main ideas from simple texts; writing with comprehension of short presentations; and further understanding of Spanish-speaking cultures. This course is appropriate for 9<sup>th</sup> through 12<sup>th</sup> grade students.

### **Spanish III**

**Course Code** 24054G1000

1 credit; Lab donation requested; Prerequisite – Spanish II

Spanish III, Honors focuses on listening and speaking skills including understanding and responding to factual and interpretive questions; paraphrasing, explaining, and giving cause; interpreting main ideas and supporting details from authentic texts; creating presentations; and increased understanding of Spanish-speaking cultures. This course is appropriate for 10<sup>th</sup> through 12<sup>th</sup> grade students.

### **AP Spanish Language**

**Course Code** 24064E1000

1 credit; Lab fee and exam fee required; Prerequisite – Spanish III

AP Spanish Language focuses on listening and speaking skills including understanding and responding to factual and interpretive questions; proposing and supporting solutions to issues and problems; interpreting authentic prose and poetry selections; creating compositions; and extensive understanding of Spanish-speaking cultures. Students in AP Spanish Language are required to take the AP Exam. This course is appropriate for 11<sup>th</sup> or 12<sup>th</sup> grade students.

### **Spanish & International Cultures Overview**

**Course Code** 24099E1000

.5 credit; No fee

This elective course will focus on understanding, experiencing, and comparing Spanish speaking cultures around the world. It will also introduce a variety of other international cultures. Students will be introduced to basic listening, writing, reading, and speaking skills in Spanish that will assist them in daily situational contexts. This course can count toward a .5 world language credit.

**French I****Course Code** 24102G1000

1 credit; Lab donation requested

French I focuses on listening and speaking skills including understanding and responding to simple directions, expressions of courtesy, and questions related to daily routines; reading and writing skills including words and phrases used in basic situational contexts; and beginning understanding of French-speaking cultures. This course is appropriate for 9<sup>th</sup> through 12<sup>th</sup> grade students.

**French II****Course Code** 24103G1000

1 credit; Lab donation requested; Prerequisite – French I

French II focuses on listening and speaking skills including understanding and responding to a variety of directions, commands, and questions related to personal preferences; reading with comprehension of main ideas from simple texts; writing with comprehension of short presentations; and further understanding of French-speaking cultures. This course is appropriate for 9<sup>th</sup> through 12<sup>th</sup> grade students.

**French III****Course Code** 24104G1000

1 credit; Lab donation requested; Prerequisite – French II

French III, Honors focuses on listening and speaking skills including understanding and responding to factual and interpretive questions; paraphrasing, explaining, and giving cause; interpreting main ideas and supporting details from authentic texts; creating presentations; and increased understanding of French-speaking cultures. This course is appropriate for 10<sup>th</sup> through 12<sup>th</sup> grade students.

**AP French Language and Culture****Course Code** 24114E1000

1 credit; Exam and lab fee required; Prerequisite – French III

College-level advanced language course following the curriculum established by the College Board Advanced Placement (AP) Program for French; performance in listening, speaking, reading, and writing for a variety of situations with emphasis on vocabulary, structure, fluency, and accuracy; extensive writing of compositions. Students in AP French Language and Culture are required to take the AP Exam. This course is appropriate for 11<sup>th</sup> or 12<sup>th</sup> grade students.

**American Sign Language I****Course Code** 24852G1000

1 credit; Lab donation requested

American Sign Language I content standards provide students the opportunity to begin the study of ASL while introducing them to the study of Deaf culture. Basic vocabulary, grammar, and culture are included in the course. Acquisition of Level I knowledge and skills helps students understand their own language and culture, develop insight into cultures other than their own, and participate more fully in the global community. This course is appropriate for 9<sup>th</sup> through 12<sup>th</sup> graders.

**American Sign Language II****Course Code** 24853G1000

1 credit; Lab donation requested; Prerequisite – American Sign Language I

American Sign Language II 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 the American Deaf culture as well as their own, and enhancing the connections they make with other disciplines, the community, and the world. This course is appropriate for 10<sup>th</sup> through 12<sup>th</sup> graders.

**American Sign Language III****Course Code** 24854G100

1 credit; Lab donation requested; Prerequisite- American Sign Language II

American Sign Language III content standards build upon knowledge and skills acquired in the Level II course. This course is a syntax and grammar study including understanding and responding through paraphrasing, explaining, and giving cause; interpreting main ideas and supporting details from authentic texts; creating presentations on a variety of topics; and increased understanding of deaf cultures. This course is appropriate for 10<sup>th</sup> through 12<sup>th</sup> graders.

## Career Technical Academies & Pathways

Please note the academies and pathways are for all students who are interested in any of the following after high school: workforce, military, technical school, 2-year college, and 4-year college.

ACS strongly encourages students to choose one pathway and complete three to four sequential courses for the best chance to earn a College and Career Ready Indicator, workforce ready credentials, internships, and college/career professional contacts.

## Government & Public Administration Academy

### **Air Force JROTC**

Students are encouraged to take **3 to 4 years** of JROTC in sequence in order to earn the AFJROTC Certificate of Completion. **The certificate allows students the following benefits after high school:**

- Cadets who enlist in any branch of the US military will enter at a higher pay grade
- Cadets will have a higher standing than other enlisted personnel
- Cadets will be eligible for earlier promotions

Please note, taking these courses **does NOT obligate the student to the military**, but does prepare him/her for a wide variety of leadership roles in the workforce or armed forces.

The National Occupational Competency Testing Institute (NCOTI) and JROTC have collaborated to offer a JROTC Leadership and Employability Skills certification. JROTC Subject Matter Experts (SMEs) involved with the project assisted in assuring the credential aligns with the core JROTC tenets instilled across all branches of the military. AFJROTC curriculum lessons and learning outcomes and objectives directly support cadet preparation for earning a NOCTI industry based CTE credential. The credential includes the following benefits:

- Provides cadets with a nationally recognized CTE job skills ready credential
- Provides the same credential recognition as other CTE programs
- Validates the curriculum being taught by all service JROTC programs
- Recognizes the skills instructors bring to the classroom
- Provides program feedback and cadet experiences through a survey

Both the AFJROTC Certificate of Completion and the NCOTI certification give students a College and Career Ready Indicator, which is a graduation requirement for the Class of 2026 and beyond.

Leadership topics include communication skills, understanding individual and group behavior, leadership theory, personnel management, responsible citizenship, and planning one's future. Academic topics include history of flight, civil aviation, military aviation, weather, flight principles, navigation, flight physiology, space technology, aerospace propulsion systems, wellness and careers in aerospace. Curriculum-in-action trips to civilian and military aerospace facilities are offered to all students.

One (1) JROTC credit may also be substituted for the required physical education credit. Students will perform drills and ceremonies once a week. Additionally, one day per week will be dedicated to fitness.

These courses have specific dress and grooming standards as well as the requirements to wear the Air Force uniform one day each week. Uniforms and books are free and are provided by the Air Force.

Students can volunteer to be on the drill, color guard, and marksmanship teams as well as the model rocket, aircraft, and drone clubs.

| Foundation Course<br>Year 1                     | Concentrator Course<br>Year 2                    | Concentrator Course<br>Year 3                       | Concentrator Course Year 4                      | College/Career Ready<br>Certifications                    |
|---|--|---|---|---|
| Air Force JROTC Leadership and Aviation History | Air Force JROTC Leadership and Science of Flight | Air Force JROTC Leadership and Exploration of Space | Air Force JROTC Leadership and Cultural Studies | AFJROTC Certificate of Completion<br><br>NOCTI credential |

**Air Force JROTC Leadership and Aviation History (Year 1) with embedded Career Prep A and embedded Beginning Kinesiology**

**Course Code** 09151G1000

1 credit; No fee

A one-credit course which focuses on the development of flight throughout the centuries from ancient civilization to modern day. The course also focuses on learning the value of elements of good citizenship and Air Force organizational structure, including uniform wear, military traditions, fitness, and individual self-control.

**Air Force JROTC Leadership and Science of Flight (Year 2)**

**Course Code** 09152G1000

1 credit; No fee

A one-credit course designed to acquaint students with the aerospace environment, the human requirements of flight, principles of aircraft flight, and principles of navigation. Students learn basic navigation including map reading, course plotting, and the effects of wind. Students will also apply basic communication, decision-making, personal-interactions, managerial, and organizational skills

**Air Force JROTC Leadership and Exploration of Space (Year 3)****Course Code** 09153G1000

1 credit; No fee

A one-credit course designed to provide students with an advanced study of space exploration; issues that are critical to travel in the upper atmosphere, including unmanned satellites, trajectories, space probes, and guidance and control systems; and major milestones. Students will also apply basic communication, decision-making, personal-interactional, managerial, and organizational skills.

**Air Force JROTC Leadership and Cultural Studies (Year 4)****Course Code** 09004G1001

1 credit; No fee

A one-credit course designed to provide students with an increased international awareness and insight into foreign affairs; an understanding of European, Middle Eastern, South and East Asian, African, and Latin American cultures; and an enhanced knowledge of America's interest and role in the world. Students apply prior leadership theory through hands-on practices and experiences.

**Business Management & Administration Academy**

| Foundation Course                | Concentrator Course               | CTE Capstone Courses*  | College/Career Ready Certifications            |
|----------------------------------|-----------------------------------|--|--|
| Business Software Applications I | Business Software Applications II | CTE Lab in Business Management and Administration<br><br>AND/OR<br><br>Work Based Learning | Microsoft Office Specialist: PowerPoint & Word |

***\*CTE Lab in Business Management and Administration must be taken as a third year course or concurrently with the concentrator course. Work Based Learning should be taken after or concurrently with the concentrator course.***

**Business Software Applications I with embedded Career Prep A****Course Code** 10005G1001

1 credit; Course fee required

This foundation course emphasizes the skills required to create, edit, and publish industry-appropriate documents. Areas of instruction include the integration of word processing, desktop publishing, spreadsheets, database management, and presentation software as well as the use of emerging technologies. Competencies for the co-curricular



student organization DECA are also embedded in this course. Students will have the opportunity to gain industry-recognized credentials to document basic computer skills needed for future education or employment. This course is appropriate for 9<sup>th</sup> and 10<sup>th</sup> grade students.

### **Business Software Applications II**

**Course Code** 10005G1002

1 credit; Course fee required; Prerequisite – Business Software Applications I

Business Software Applications II focuses on advanced word processing and spreadsheet and database management skills using current and emerging integrated technology. These skills include a variety of input technologies in the production of professional quality business documents and reports. Performance and production skills for the co-curricular student organization DECA are embedded in this course. Students will also have the opportunity to gain industry-recognized credentials to document advanced computer skills needed for future education or employment plans.

### **CTE Lab in Business Management and Administration**

**Course Code** 12047G1002

1 credit; Course fee required; Prerequisite – Business Software Applications I and a concentrator course from the Business Management and Administration Career Cluster pathway (concentrator course may be taken concurrently with the CTE Lab)

CTE Lab in Business Management and Administration is designed to enhance the student's general understanding and mastery of the cluster. This course is designed as a learning laboratory to support students' individual interests and goals. This laboratory may take place in a traditional classroom, in an industry setting, or in a virtual learning environment.

### **Work Based Learning (Cooperative Education)**

**Course Code** 22998G1014, 22998G1024, 22998G1034, 22998G1044

1 credit each; Course fee required; Prerequisite – Students must have completed at least 1 CTE course or Career Preparedness A&B. Students should take a concentrator course prior to or concurrently with Co-Op

A one-credit work-based experience requiring a minimum of 140 continuous and successful hours of employment performed under the supervision of a workplace mentor and the work-based learning/cooperative education coordinator.

## Marketing Academy

| Foundation Course                | Concentrator Courses*  | CTE Capstone Course* | College/Career Ready Certification   |
|----------------------------------|--|----------------------|--|
| Business Software Applications I | Marketing Principles<br><br>Sports and Entertainment Marketing<br><br>Entrepreneurship | Work Based Learning  | Microsoft Office Specialist: PowerPoint & Word<br><br>Certified Guest Service Professional |

***\*After completion of Business Software Applications I, students may take concentrator courses in the sequence they prefer. Work Based Learning should be taken after or concurrently with the concentrator course(s).***

### **Business Software Applications I with embedded Career Prep A**

**Course Code** 10005G1001

1 credit; Course fee required

This foundation course emphasizes the skills required to create, edit, and publish industry-appropriate documents. Areas of instruction include the integration of word processing, desktop publishing, spreadsheets, database management, and presentation software as well as the use of emerging technologies. Competencies for the co-curricular student organization DECA are also embedded in this course. Students will have the opportunity to gain industry-recognized credentials to document basic computer skills needed for future education or employment. This course is appropriate for 9<sup>th</sup> and 10<sup>th</sup> grade students.

### **Marketing Principles**

**Course Code** 12164G1001

1 credit; Course fee required; Prerequisite - Business Software Applications I

Marketing Principles is designed to provide students with an overview of marketing concepts. The course addresses the ways in which marketing satisfies consumer and business needs and wants for products and services. Areas emphasized include economics, entrepreneurship, information management, finance, marketing, product and service planning, promotion, pricing, selling, interpersonal skills, and international marketing.

**Sports and Entertainment Marketing****Course Code** 12163G1003

1 credit; Course fee required; Prerequisite - Business Software Applications I

Sports and Entertainment Marketing is a specialized course designed to offer students an opportunity to gain knowledge and develop skills related to the growing sports and entertainment industry. This course introduces the student to the major segments of the industry and the social and economic impact the industry has on local, state, national, and global economies. The products and services offered to consumers and the impact of marketing on these products and services are examined. The sports marketing portion of the course addresses such diverse products as the sporting event itself, its athletes, sports facilities or locations, sporting goods, personal training, and sports information. Entertainment marketing focuses on events such as fairs, concerts, trade shows, festivals, plays, product launches, and causes.

**Entrepreneurship****Course Code** 12053G1000

1 credit; Course fee required; Prerequisite - Business Software Applications I

Entrepreneurship focuses on the skills needed to organize, develop, create, and manage a business in a variety of environments. Course standards are designed to foster an entrepreneurial mindset; encourage innovation, critical thinking, and problem-solving in a fast-paced professional setting; and build basic knowledge of various entrepreneurial ventures.

**Work Based Learning (Cooperative Education)****Course Code** 22998G1014, 22998G1024, 22998G1034, 22998G1044

1 credit each; Course fee required; Prerequisite – Students must have completed at least 1 CTE course or Career Preparedness A&amp;B

A one-credit work-based experience requiring a minimum of 140 continuous and successful hours of employment performed under the supervision of a workplace mentor and the work-based learning/cooperative education coordinator.

## **Education & Training Academy**

### **Required Pathway Sequence**

| <b>Foundation Course</b> | <b>Concentrator Course</b> | <b>Concentrator Course</b> | <b>Concentrator Course</b>        | <b>College/Career Ready Certifications</b>                                       |
|--------------------------|----------------------------|----------------------------|-----------------------------------|--|
| Education and Training   | Teaching I                 | Teaching II                | Education and Training Internship | Praxis II: Principles of Learning & Teaching<br><br>Google Educator Levels 1 & 2 |

### **Education and Training with embedded Career Prep A (Year 1)**

**Course Code** 19151G1000

1 credit; Lab fee required

This course is the prerequisite for all other courses in the Education and Training program. It is designed for students who are interested in pursuing careers in education. Course content includes the organizational structure of education, careers, the role of the teacher, characteristics of effective teachers, communication skills, the teaching and learning processes, learning styles, research, positive classroom environments, student characteristics, teaching techniques, learning activities, educational initiatives, and technology. Observational experiences are required. This course is appropriate for 9<sup>th</sup> or 10<sup>th</sup> grade students.

### **Teaching I (Year 2)**

**Course Code** 19152G1012

1 credit; Lab fee required; Prerequisite – Education and Training

This course builds on the knowledge gained in the Education and Training course. Content includes information to help students implement the teaching and learning processes. Major topics are funding sources, budget preparations, legal aspects, research, teaching and learning theories, curriculum development, positive learning environments, creative teaching techniques, appropriate learning activities, instructional resources, community resources and services, scope and sequence charts, course outlines, lesson plans, testing, grading, developing partnerships, technology, and careers. School-based laboratory experiences are essential for students to develop skills in teaching. Observational experiences are a required component of this course. This course is appropriate for 10<sup>th</sup> through 12<sup>th</sup> grade students.

**Teaching II (Year 3)****Course Code** 19152G1022

1 credit; Lab fee required; Prerequisite – Education and Training and Teaching I

A one-credit course that provides students with advanced knowledge and skills used in the education field. Concepts of legal aspects of education, instructional resources, motivation, types of assessments, constructing texts, positive learning environments, lesson planning and teaching for various areas and grades, reading level of instructional materials, classroom management strategies, partnerships, public relations, professional associations, technology, and careers are included in the course. Observational experiences are a required component of this course. This course is appropriate for 11<sup>th</sup> or 12<sup>th</sup> grade students.

**Education & Training Internship (Year 4)****Course Code** 19198G1000

1 credit; Lab fee required; Prerequisite – Education and Training, Teaching I, &amp; Teaching II

The internship course is for students who are interested in pursuing careers in the education field. The internship allows students to spend time in a classroom or school setting on a regular basis with a teacher within the school system who teaches the subject-matter area of interest to the student intern, a staff member in the appropriate professional support services area, and/or an administrator. This course provides students with a context in which they can make a personal assessment of their commitment to pursue a teaching, professional support services, or educational leadership career. The school-based laboratory for the internship is an actual classroom or school that provides instruction in the subject-matter area or career area related to the student's interest. This course is appropriate for 12<sup>th</sup> grade students.

## Engineering Academy & Mechatronics Program

### Engineering Required Pathway Sequence

| Foundation Course                       | Specialization Course                    | Specialization Course           | Specialization Course                             | College/Career Ready Certifications |
|---|--|---------------------------------|---|-------------------------------------|
| Foundations of Engineering & Technology | Applications of Engineering & Technology | Basic Programming for Engineers | Career Pathway Project in STEM (capstone project) | Autodesk - AutoCAD Certified User   |

### **Mechatronics\*** (formerly Industrial Maintenance) Dual Enrollment Pathway Classes taught at THS. Pathway below is for short certification.

| Foundation Course<br>(preferred introductory course) | Year 1<br>Semesters 1 & 2                 | Year 2<br>Semesters 1 & 2                   | Year 3<br>Semesters 1 & 2  | College/Career Readiness  |
|--|---|---|--|---|
| Foundations of Engineering & Technology              | Electric Circuits I and Intro to Robotics | Electric Circuits II and Mechanical Tools I | Lean Manufacturing and Industrial Safety And Blueprint Reading for Manufacturing | Depending on individual goals, students may earn a short certificate, certificate, or associate's degree in mechatronics. |

### **Foundations of Engineering & Technology with embedded Career Prep A (Year 1)**

#### **Course Code 21005G1000**

1 credit; Lab fee required; Prerequisite - Open to Freshman and Sophomore students with a grade of C or better in the previous year's math course or teacher approval.

Foundations of Engineering & Technology is a one-credit course for all first-year Engineering Academy students. This is the entry-level Engineering Academy course and is a prerequisite for all other engineering academy courses. Foundations of Engineering and Technology offers students an exploratory view of the engineering profession and the fundamental skills utilized in the field. Students investigate various engineering disciplines and related career paths. Students will develop leadership and teamwork skills through creativity, collaboration, communication, and critical thinking. Additionally, students will increase their understanding of science, technology, engineering, and mathematics (STEM) principles used in problem-solving as they use the engineering design process. Upon completion of this course, students may be ready to earn a credential in Computer-Aided Design (CAD) software.

### **Applications of Engineering & Technology (Year 2)**

**Course Code** 21002G1000

1 credit; Lab fee required; Prerequisite – Foundations of Engineering and Algebra I with Probability or its equivalent

Applications of Engineering and Technology offers students an investigative view of the engineering profession and the fundamental skills utilized in the field. Students continue investigating engineering disciplines and related career paths. Students will expand leadership and teamwork skills through creativity, collaboration, communication, and critical thinking. Additionally, students will increase their understanding of science, technology, engineering, and mathematics (STEM) principles through real-world problem solving using industry practices and tools such as Microsoft Excel. Students will also develop skills in written and spoken technical communication.

### **Basic Programming for Engineers (Year 3)**

**Course Code** 21015G1000

1 credit; Lab fee required; Prerequisite – Foundations and Applications of Engineering & Technology

A one-credit course designed to provide students with an introduction to computer tools and computer programming languages used by engineers. Emphasis is placed on language fundamentals, algorithm analysis and solutions, program structures, data structures, object-oriented/modular structure, and overview of computer hardware and software tools. The course is appropriate for 11<sup>th</sup> or 12<sup>th</sup> grade students and is a required prerequisite to the Career Pathway Project in STEM design course.

### **Career Pathway Project in STEM (Year 4)**

**Course Code** 21047G1001

1 credit; Lab fee required; Prerequisite – Basic Programming for Engineers

Career Pathway Project (CPP) for STEM is a capstone course designed for students who have completed Foundations of Engineering and Technology, Applications of Engineering and Technology, and Basic Programming for Engineers. This course allows students to utilize their secondary coursework through an experience that showcases their learning. It provides an opportunity for a student to choose an area of interest and engage in an in-depth exploration of the area while demonstrating problem-solving, decision-making, and independent learning skills. The CPP contributes to an educational plan of challenging courses and practical experiences that prepares students for the workplace or for pursuing further education.

### **Dual Enrollment Electric Circuits I (ELM 200)**

**Course Code** 17149C1001

1 credit; Preferred prerequisite – Foundations of Engineering & Technology  
Please see the college counselor regarding CTE scholarship opportunities.

Dual enrollment Electric Circuits I consists of one semester long college level course following the curriculum of Jefferson State Community College. This course provides an in depth study

of direct current (DC) electronic theory. Topics include atomic theory, magnetism, properties of conductors and insulators, and characteristics of series, parallel, and series-parallel circuits. Inductors and capacitors are introduced and their effects on DC circuits are examined. Students are prepared to analyze complex DC circuits, solve for unknown circuit variables and to use basic electronic test equipment. This course also provides hands-on laboratory exercises to analyze, construct, test, and troubleshoot DC circuits. Emphasis is placed on the use of scientific calculators and the operation of common test equipment used to analyze and troubleshoot DC and to prove the theories taught during classroom instruction. This course provides an in depth study of direct current (DC) electronic theory.

### **Dual Enrollment Intro to Robotics (AUT 116)**

**Course Code** 13999C1030

1 credit; Prerequisite – Dual Enrollment Electric Circuits I (ELM 200)

Please see the college counselor regarding CTE scholarship opportunities.

Dual enrollment Intro to Robotics consists of one semester long college level course following the curriculum of Jefferson State Community College. This course provides instruction in concepts and theories for the operation of robotic servo motors and power systems used with industrial robotic equipment. Emphasis is on the application of the computer to control power systems to perform work. Student competencies include understanding of the functions of hydraulic, pneumatic, and electrical power system components, ability to read and interpret circuitry for proper troubleshooting and ability to perform preventative maintenance.

### **Dual Enrollment Electric Circuits II (ELM 201S)**

**Course Code** 17149C1072

1 credit; Prerequisite – Year 1 mechatronics dual enrollment courses

Please see the college counselor regarding CTE scholarship opportunities.

Dual enrollment Electric Circuits II consists of one semester long college level course following the curriculum of Jefferson State Community College. This course provides an in-depth study of alternating current (AC) electronic theory. Students are prepared to analyze complex AC circuit configurations with resistors, capacitors, and inductors in series and parallel combinations. Topics include electrical safety and lockout procedures, specific AC theory functions such as RLC, impedance, phase relationships, and power factor. Students will be able to define terms, identify waveforms, solve complex mathematical problems, construct circuits, explain circuit characteristics, identify components and make accurate circuit measurements using appropriate measurement instruments. They should also be able to perform fundamental tasks associated with troubleshooting, repairing, and maintaining industrial AC systems.

### **Dual Enrollment Mechanical Tools I (MET 190)**

**Course Code** TBA

1 credit; Prerequisite – Year 1 mechatronics dual enrollment courses

Please see the college counselor regarding CTE scholarship opportunities.



Dual enrollment Industrial Controls I consists of one semester long college level course following the curriculum of Jefferson State Community College. This course offers an introduction into shop safety, basic hand tools, basic machining concepts, quality measurement devices (e.g. tape measures, calipers, micrometers), basic blueprint reading, dimensioning and tolerancing. Upon completion of this course, the student will have demonstrated the ability to properly and safely use, calibrate, and interpret the readings of these tools and instruments. The student will also be introduced to advanced machining technology.

**Dual Enrollment Lean Manufacturing and Industrial Safety (AUT 102)**

**Course Code** 13999C1037

1 credit; Prerequisite – Year 2 mechatronics dual enrollment courses

Please see the college counselor regarding CTE scholarship opportunities.

Dual enrollment Industrial Controls I consists of one semester long college level course following the curriculum of Jefferson State Community College. This course will introduce students to manufacturing fundamentals. It introduces various tools and techniques typically used in lean manufacturing. It also will provide Occupational Safety and Health Administration (OSHA) certification instruction. OSHA standards will include electrical, Lock Out/Tag Out, hazardous communications, personal protective equipment, machine guarding, and walking and working surfaces.

**Dual Enrollment Blueprint Reading for Manufacturing (AUT 104)**

**Course Code** 13999C1035

1 credit; Prerequisite – Year 2 mechatronics dual enrollment courses

Please see the college counselor regarding CTE scholarship opportunities.

Dual enrollment Industrial Controls I consists of one semester long college level course following the curriculum of Jefferson State Community College. This course provides the students with terms and definitions, theory of orthographic projection, and other information required to interpret drawings used in the manufacturing and industrial trade areas. Topics include multiview projection, pictorial drawings, dimensions and notes, lines and symbols, tolerances, industrial applications, scales and quality requirements. Upon completion, students should be able to interpret blueprint drawings used in the manufacturing and industrial trades.

## Information Technology Academy

### **Computer Science Pathway**

| <b>Foundation Course*</b>           | <b>Concentrator Course*</b>   | <b>Capstone Course(s) and/or AP Courses</b>  | <b>College/Career Ready Certifications</b> |
|-------------------------------------|-------------------------------|--|--|
| Information Technology Fundamentals | Object-Oriented Programming I | Career Pathway in Information Technology   | TestOut Pro Certification                  |
| Information Technology Fundamentals | Object-Oriented Programming I | AP Computer Science Principles AND Career Pathway Project in Information Technology<br>OR AP Computer Science Principles THEN Career Pathway Project in Information Technology |  |
| Information Technology Fundamentals | Object-Oriented Programming I | AP Computer Science Principles<br>-----<br>AP Computer Science A AND/OR Career Pathway Project in Information Technology   |  |

***\*All students will take IT Fundamentals and Object-Oriented Programming I as their first and second year courses before choosing additional courses.***

### **Information Technology Fundamentals (Year 1)**

**Course Code** 10999C1060

1 credit; Lab fee required

This is an introductory level course that covers the fundamentals of software, hardware, security, and networking, as well as basic IT skills such as workstation set-up, operating system navigation, simple support services, backup protocols, and safety. Upon completion of the course, students will understand the essential functions of IT professionals and be better positioned to make decisions about a career in information technology. This class is appropriate for 9<sup>th</sup> or 10<sup>th</sup> grade students.

**Object-Oriented Programming I (Year 2)****Course Code** TBA

1 credit; Lab fee required; Prerequisite – Information Technology Fundamentals

This course covers program development techniques and concepts in the context of the object-oriented language of Python. This class is appropriate for 10<sup>th</sup> -12<sup>th</sup> grade.

**AP Computer Science Principles****Course Code** 10019E1000

1 credit; Lab fee and exam fee required

Prerequisite – Information Technology Fundamentals and Object Oriented Programming I

The AP Computer Science Principles course is designed to be equivalent to a first- semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course engages students in the creative aspects of the field by allowing them to develop computational artifacts based on their interests. Students will also develop effective communication and collaboration skills by working individually and collaboratively to solve problems, and will discuss and write about the impacts these solutions could have on their community, society, and the world. Students are required to take the AP exam. This course is appropriate for students in 11<sup>th</sup> or 12<sup>th</sup> grades.

**AP Computer Science A****Course Code** 10157E1000

1 credit; Lab fee and exam fee required

Prerequisite – Information Technology Fundamentals and Object Oriented Programming I

AP Computer Science A introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. Students are required to take the AP exam. This course is appropriate for students in 11<sup>th</sup> or 12<sup>th</sup> grades.

**Career Pathway Project in Information Technology (Capstone Project)****Course Code** 10997G1001

1 credit; Lab fee required

Prerequisite – completion of a minimum of two courses in this pathway

A one-credit course designed for students who have completed a minimum of two information technology courses to select an area of interest; engage in in-depth exploration of information technology; employ problem solving; decision-making; and independent learning skills; and present a culminating pathway project before a selected audience. This course is appropriate for students in 11<sup>th</sup> or 12<sup>th</sup> grades.

### Cybersecurity Pathway

| Foundation Course                   | Concentrator Course | Concentrator Course | Concentrator Course | College/Career Ready Certifications |
|-------------------------------------|---------------------|---------------------|---------------------|-------------------------------------|
| Information Technology Fundamentals | Cybersecurity I     | TBD                 | TBD                 | TBD                                 |

#### **Information Technology Fundamentals (Year 1)**

**Course Code** 10999C1060

1 credit; Lab fee required

This is an introductory level course that covers the fundamentals of software, hardware, security, and networking, as well as basic IT skills such as workstation set-up, operating system navigation, simple support services, backup protocols, and safety. Upon completion of the course, students will understand the essential functions of IT professionals and be better positioned to make decisions about a career in information technology. This class is appropriate for 9<sup>th</sup> or 10<sup>th</sup> grade students.

#### **Cybersecurity I (Year 2)**

**Course Code** 10020G1011

1 credit; Lab fee required

Cybersecurity I is designed to provide an entry into the quickly growing field of cybersecurity. It focuses on building key concepts and exploring the range and scope of the cybersecurity field. The course also looks at best practices, the importance of maintaining a high level of ethical behavior, the provisions and rationale for government regulations and laws, and the consequences of failure to abide by these rules. The course builds on students' basic knowledge of computers and networks to create a deeper understanding of how computer systems, devices, and other networks are interconnected through secure data networks. This course will continue to help prepare students for industry-level exams.

## Human Services Academy

| Concentration                                     | Foundation Course*           | Concentrator Course                      | Concentrator Course                     | Concentrator Course                      | College/Career Ready Certifications           |
|---|------------------------------|--|---|--|---|
| <b>Early Childhood Development &amp; Services</b> | Family and Consumer Sciences | Child Development and/or Dual Enrollment | Child Services and/or Dual Enrollment   | Child Services II and/or Dual Enrollment | ServSafe Food Handler<br><br>ServSafe Manager |
| <b>Family Studies and Community Services</b>      | Family and Consumer Sciences | Food and Nutrition                       | Family Studies and Community Services I | Family Studies and Community Services II | **CDA Credential (Dual Enrollment)            |

***\*All students will take Family and Consumer Sciences as their first year course before choosing concentrator courses. Concentrator courses may be taken concurrently. Students should stay within the pathway courses for the Concentration they choose.***

***\*\*The Child Development Associate (CDA) credential is one of the current minimum requirements for Assistant Teachers in the expanding Alabama PreK program.***

### **Early Childhood Development & Services Concentration**

#### **Family and Consumer Sciences (FACS) with embedded Career Prep A**

**Course Code** 19251G1000

1 credit; Lab fee required

This course serves as the foundational course for the Human Services cluster. Course content provides opportunities for students to explore the core content included in the Family Studies and Consumer Sciences pathway. Major topics are marriage and family life, parenting and caregiving, consumer services, apparel, housing, food and nutrition, and technology and careers. This course is not a prerequisite for courses included in all pathways within the cluster, however, students are encouraged to take the course before entering a pathway. Career and technical student organizations are integral, co-curricular components of each career and technical education course. These organizations serve as a means to enhance classroom instruction while helping students develop leadership abilities, expand workplace-readiness skills, and broaden opportunities for personal and professional growth. Students will be encouraged to participate in FCCLA (Family, Career, and Community Leaders of America). This course is appropriate for 9<sup>th</sup> or 10<sup>th</sup> grade students.

#### **Child Development**

**Course Code** 19255G1002

1 credit; Lab fee required; Prerequisite – Family and Consumer Sciences

This course helps students develop skills related to the physical, social, intellectual, and emotional development of children. Course content provides opportunities for exploring benefits of studying children, stages of development, child development theories, child health and safety, behavior management, child abuse, needs of exceptional children, childcare services, community resources, technology, and career opportunities related to working with children. This course is for 10<sup>th</sup> through 12<sup>th</sup> grade students.

### **Child Services I**

**Course Code** 19054G1012

1 credit; Lab fee required; Prerequisite – Family and Consumer Sciences

Child Services I is a one-credit course that includes content to help students learn about child growth and development and ways to provide services to children. Major topics included in this course are types of child services; career options; roles and functions of individuals engaged in child services occupations; developmental theories; physical, intellectual, social, and emotional development of children; family influences; large and small motor-skill development; safe learning environments; child nutrition; emergency procedures; disadvantaging conditions of children; observation of children; exceptional children; communication skills; local, state, and national agencies supporting children; professionalism and ethics; health and hygiene practices; and technology. This course is for 10<sup>th</sup> through 12<sup>th</sup> grade students.

### **Child Services II**

**Course Code** 19054G1022

1 credit; Lab fee required; Prerequisite – Child Services I

Child Services II is a one-credit course. The prerequisite for this course is Child Services I. The course includes content that helps students learn about the management of child services facilities. Major topics are guidance techniques; parenting philosophies; communications; curriculum development; evaluation of services; first aid and emergency response plans; learning environments; development of policies and procedures; facility design; role of directors and staff; federal, state, and local regulations and licensure requirements; work environments; nutritional needs of clients; budgets; parent and community relationships; professionalism; and entrepreneurial opportunities. This course is for 11<sup>th</sup> or 12<sup>th</sup> grade students.

### **Early Childhood Dual Enrollment**

Students interested in meeting the educational component ONLY of the nationally recognized CDA credential and receive college course credit may take the following three sequential child development courses. These courses satisfy the functional areas of study identified by the Council.

- CHD100 Introduction to Early Care and Education of Children 3
- CHD 204 Materials and Methods for Teaching Children 3
  - or \*CHD 209 Infant and Toddler Programs (Infant-Toddler credential ONLY)
- CHD 206 Children's Health and Safety \* 3

**NOTE:**

- Additional [CDA credential](#) requirements are the responsibility of the student.
- Credential and credentialing fees are administered by the Council for Professional Recognition only.
- The CDA credential and/or the JSCC Child Development certificate are the current minimum requirements for Assistant Teachers in the expanding Alabama PreK.

*For more information, see your college counselor or visit the Council website at:  
<http://www.cdacouncil.org>*

## **Family Studies and Community Services Concentration**

### **Family and Consumer Sciences (FACS) with embedded Career Prep A**

**Course Code** 19251G1000

1 credit; Lab fee required

This course serves as the foundational course for the Human Services cluster. Course content provides opportunities for students to explore the core content included in the Family Studies and Consumer Sciences pathway. Major topics are marriage and family life, parenting and caregiving, consumer services, apparel, housing, food and nutrition, and technology and careers. This course is not a prerequisite for courses included in all pathways within the cluster, however, students are encouraged to take the course before entering a pathway. Career and technical student organizations are integral, co-curricular components of each career and technical education course. These organizations serve as a means to enhance classroom instruction while helping students develop leadership abilities, expand workplace-readiness skills, and broaden opportunities for personal and professional growth. Students will be encouraged to participate in FCCLA (Family, Career, and Community Leaders of America). This course is appropriate for 9<sup>th</sup> or 10<sup>th</sup> grade students.

### **Food and Nutrition**

**Course Code** 19252G1000

1 credit; Lab fee required; Prerequisite – Family and Consumer Sciences

Topics include the impact of daily nutrition and wellness practices on long-term health and wellness; physical, social, and psychological aspects of healthy nutrition and wellness choices; selection and preparation of nutritious meals and snacks based on United States Department of Agriculture (USDA) Dietary Guidelines and Food Guide Pyramid; safety, sanitation, storage, and recycling processes and issues associated with nutrition and wellness; impacts of science and technology on nutrition and wellness issues; and nutrition and wellness career paths. This course is appropriate for 10<sup>th</sup> through 12<sup>th</sup> grade students.

### **Family Studies and Community Services I**

**Course Code** 19259G1012

1 credit; Lab fee required; Prerequisite – Family and Consumer Sciences

This course is designed for students who are interested in acquiring skills for providing service to families and in preparing for a variety of careers related to family and human services. Content standards guide students in discovering how to work with family and human services clients through topics that include the role and function of individuals engaged in family and human services; career options; educational training; agencies, organizations, and resources; laws and trends in the field; disadvantaging conditions of individuals and families; client rights, responsibilities, and support services; basic life skills; workplace professionalism; professional associations; confidential record keeping; workplace safety; communication skills; developmental needs of clients; health and wellness management plans; older adults; intergenerational living; services for older adults; crisis intervention and management; coping strategies and stress management; advocacy; abuse and neglect; and technology. This course is appropriate for 10<sup>th</sup> through 12<sup>th</sup> grade students.

### **Family Studies and Community Services II**

**Course Code** 19259G1022

1 credit; Lab fee required; Prerequisite – Family Studies and Community Services I

The course includes content that helps students learn ways to determine client needs through the use of assessments and to provide intervention services. The physical, social, emotional, and intellectual stages of clients from infancy to older adults are addressed throughout the course. Additional topics include licensure requirements; age-appropriate activities; curriculum development; hobbies and recreational activities; transitions and life changes of clients; the aging process; assisted-living facilities; technology; resources, agencies, and services for clients; disadvantaging conditions; assessments; making informed choices; crisis intervention; and abuse and neglect. This course is appropriate for 11<sup>th</sup> or 12<sup>th</sup> grade students.



### **Health Sciences Academy**

Students may choose one of five college/career pathways at Thompson High School: patient care, emergency services, sports medicine, PLTW biomedical sciences, or pharmacy. It is highly recommended that students remain in one pathway once they begin their specialization course. Students who are completers (take three or more classes in sequence) can earn workforce and college ready certifications that can be used immediately in this high demand career field.

#### **Required Pathways**

| <b>Concentration</b>            | <b>Foundation Course</b>          | <b>Concentrator Course</b>   | <b>Concentrator Course</b>                   | <b>Concentrator Course</b> | <b>College/<br/>Career Ready<br/>Certifications</b>   |
|---------------------------------|-----------------------------------|------------------------------|--|----------------------------|---|
| <b>Patient Care</b>             | Foundations of Health Science     | Therapeutic Services         | Patient Care Technician                      | Health Services Internship | Certified Patient Technician / BLS Instructor with Healthcare Provider  |
| <b>Emergency Services</b>       | Foundations of Health Science     | Emergency Services           | Dual Enrollment Emergency Medical Technician |                            | National Emergency Medical Responder / BLS Instructor with Healthcare Provider / Emergency Medical Technician |
| <b>Sports Medicine</b>          | Foundations of Health Science     | Sports Medicine Fundamentals | Sports Medicine Intermediate                 | Sports Medicine Advanced   | BLS Instructor with Healthcare Provider   |
| <b>PLTW Biomedical Sciences</b> | Principles of Biomedical Sciences | Human Body Systems           | Medical Interventions                        | Biomedical Innovation      | BLS Instructor with Healthcare Provider   |
| <b>Pharmacy</b>                 | Foundations of Health Science     | Introduction to Pharmacy     | Pharmacy Technician                          |                            | Pharmacy Technician Certification   |

## **Patient Care Concentration**

### **Foundations of Health Science with embedded Career Prep A and Health (Year 1)**

**Course Code** 14002G1001

1 credit; Lab fee required

This foundational course introduces students to a wide range of health careers, medical terminology, safety in health care, and basic structures and functions of human body systems. Integrated academics combined with health care knowledge and skills provide the framework for a strong health care delivery system in the twenty-first century. This course is a prerequisite to all courses in the Health Science cluster. It is recommended for students who want to prepare for further study in an array of health-related fields at the postsecondary level. This course is appropriate for 9<sup>th</sup> or 10<sup>th</sup> grade students.

### **Therapeutic Services (Year 2)**

**Course Code** 14099G1000

1 credit; Lab fee required; Prerequisite – Foundations of Health Science

This course introduces students to occupations and functions in the therapeutic services pathways along with identification of human body structures and functions, diseases and disorders, treatments and medications to treat diseases, and disorders. Careers in this area include nursing, medicine, physical therapy, surgical technology, respiratory therapy, emergency medical technician, and more. This course is appropriate for 10<sup>th</sup> or 11<sup>th</sup> grade students.

### **Patient Care Technician (Year 3)**

**Course Code** 14051G1000

1 credit; Lab fee required

Prerequisite – Foundations of Health Science

*It is highly recommended that students take Therapeutic Services prior to the class.*

Patient Care Technician is a one semester, two period course which provides students the opportunity to become effective and efficient multi-skilled healthcare providers. Students will develop a working knowledge of advanced patient care skills, vital signs, 12-lead EKG's, oxygen therapy, basic phlebotomy via simulation, and specimen collection and processing. Essential workforce skills and safety will be emphasized, as well as, professional ethics and legal responsibilities. Students will ascertain employability skills and soft skills required by business and industry. Upon successful completion of required theory, lab, and simulation, students may be eligible to sit for Patient Care Technician Certification. This course is for 11<sup>th</sup> grade students.

### **Health Science Internship (Year 4)**

**Course Code** 14298G2000

2 credits; Lab fee required

Prerequisite – Foundations of Health Science, Therapeutic Services, Patient Care Technician

Health Science Internship is a one year, two period course which provides students with the knowledge and skills necessary for becoming a healthcare worker or for preparing students for postsecondary health care education programs. Theory and laboratory components comprise at least ten percent of the course. Health Science internship is designed to be completed in a hospital, extended care facility, rehabilitation center, medical office, imagery laboratory, or other health care facility. This course is for 12<sup>th</sup> grade students.

## **Emergency Services**

### **Foundations of Health Science with embedded Career Prep A and Health (Year 1)**

**Course Code** 14002G1001

1 credit; Lab fee required

This foundational course introduces students to a wide range of health careers, medical terminology, safety in health care, and basic structures and functions of human body systems. Integrated academics combined with health care knowledge and skills provide the framework for a strong health care delivery system in the twenty-first century. This course is a prerequisite to all courses in the Health Science cluster. It is recommended for students who want to prepare for further study in an array of health-related fields at the postsecondary level. This course is appropriate for 9<sup>th</sup> and 10<sup>th</sup> grade students.

### **Emergency Services (Year 2)**

**Course Code** 14055G1000

1 credit; Lab fee required; Prerequisite – Foundations of Health Science

This course introduces students to the emergency medical profession. Course content emphasizes safety, human structure and function, assessment of emergency clients, ethical behavior, and emergency care procedures. This course is appropriate for 10<sup>th</sup> through 12<sup>th</sup> grade students.

### **Dual Enrollment Emergency Medical Technician (EMS 118)**

**Course Code** 14999C1004

1 credit; Prerequisite – Foundations of Health Science; student must be 18 years old by the completion of the EMS courses

Please see the college counselor regarding CTE scholarship opportunities.

This course is required to apply for certification as an Emergency Medical Technician. This course provides students with insights into the theory and application of concepts related to the profession of emergency medical services. 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. This course is appropriate for students who will be 18 by the completion of the EMS courses.

**Dual Enrollment Emergency Medical Technician Clinical (EMS 119)****Course Code** 14999C0505

1 credit; Prerequisite – Foundations of Health Science; student must be 18 years old by the completion of the course

Please see the college counselor regarding CTE scholarship opportunities

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. This course is appropriate for students who will be 18 by the completion of the course.

**Sports Medicine****Foundations of Health Science with embedded Career Prep A and Health (Year 1)****Course Code** 14002G1001

1 credit; Lab fee required

This foundational course introduces students to a wide range of health careers, medical terminology, safety in health care, and basic structures and functions of human body systems. Integrated academics combined with health care knowledge and skills provide the framework for a strong health care delivery system in the twenty-first century. This course is a prerequisite to all courses in the Health Science cluster. It is recommended for students who want to prepare for further study in an array of health-related fields at the postsecondary level. This course is appropriate for 9<sup>th</sup> or 10<sup>th</sup> grade students.

**Sports Medicine Fundamentals (Year 2)****Course Code** 14062G1003

1 credit; Lab fee required

Prerequisite – Foundations of Health Science

Sports Medicine is designed to teach students components of exercise science/sports medicine, including exploration of medical terminology, anatomy and physiology, first aid, injury prevention, nutrition, rehabilitation, and performance enhancement philosophies.

**Sports Medicine Intermediate (Year 3)****Course Code** 14062G1001

1 credit; Lab fee required; Prerequisite – Sports Medicine Fundamentals

Sports Medicine Intermediate teaches fundamental skills to include therapeutic exercise regimens within the field of sports medicine. Students will explore the study of sports medicine and the relationship to risk management and injury prevention. Students will demonstrate an understanding of anatomy and physiology, with emphasis on the musculoskeletal system. The importance of health promotion, wellness, injury and disease prevention will be emphasized.

Students will examine sports medicine facilities, policies, procedures, and protocols utilized in patient care.

### **Sports Medicine Advanced (Year 4)**

**Course Code** 14062G1002

1 credit; Lab fee required; Prerequisite – Sports Medicine Intermediate

This course places strong emphasis on musculoskeletal injuries as well as the psychological and sociological responses to injuries and illness. Students will demonstrate critical thinking skills related to prevention, rehabilitation, management, and communication of appropriate outcomes through oral and written communication. An analysis of a variety of health situations involved in the sports medicine pathway will be conducted through project-based learning, laboratory, simulation, and clinical experiences. Sports Medicine Advanced is appropriate for 11<sup>th</sup> or 12<sup>th</sup> graders.

## **Project Lead the Way Biomedical Sciences**

### **PLTW Principles of Biomedical Science with embedded Career Prep A and Health (Year 1)**

**Course Code** 14252G1002

1 credit; Lab fee required

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems. This course is appropriate for 9<sup>th</sup> or 10<sup>th</sup> grade students.

### **PLTW Human Body Systems (Year 2)**

**Course Code** 14299G1002

1 credit; Lab fee required; Prerequisite – PLTW Principles of Biomedical Science

This course focuses on human physiology: how the body systems work together to maintain internal balance and good health. Through projects such as determining the identity of a skeleton using both forensic anthropology and DNA analysis, students examine the interactions of human body systems and apply what they know to solve real-world medical cases.

### **PLTW Medical Interventions (Year 3)**

**Course Code** 14299G1003

1 credit; Lab fee required; Prerequisite – PLTW Human Body Systems

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body

begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

### **PLTW Biomedical Innovation (Year 4)**

**Course Code** 14255G1000

1 credit; Lab fee required; Prerequisite – PLTW Medical Interventions

In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from the 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. They have the opportunity to work on an independent project with a mentor or advisor from a university, medical facility, or research institution.

## **Pharmacy**

### **Foundations of Health Science with embedded Career Prep A and Health (Year 1)**

**Course Code** 14002G1001

1 credit; Lab fee required

This foundational course introduces students to a wide range of health careers, medical terminology, safety in health care, and basic structures and functions of human body systems. Integrated academics combined with health care knowledge and skills provide the framework for a strong health care delivery system in the twenty-first century. This course is a prerequisite to all courses in the Health Science cluster. It is recommended for students who want to prepare for further study in an array of health-related fields at the postsecondary level. This course is appropriate for 9<sup>th</sup> or 10<sup>th</sup> grade students.

### **Introduction to Pharmacy (Year 2)**

**Course Code** 14152G1000

1 credit; Lab fee required; Prerequisite – Foundations of Health Science

Introduction to Pharmacy introduces students to the pharmacy profession. Course content emphasizes the history of medicine, mathematics, technology, and legal issues.

### **Pharmacy Technician (Year 3)**

**Course Code** 14152G1001

1 credit; Lab fee required; Prerequisite – Introduction to Pharmacy

This course is a one credit course that prepares students for the Pharmacy Technician Certification exam and a pharmaceutical career. The course covers content related to medicine, federal requirements, patient safety, quality assurance, and order processing.

## TV Production Academy

| Foundation Course Year 1*                             | Concentrator Course Year 2*           | Concentrator Course                           | Capstone Course   | Capstone Course  |
|---|---------------------------------------|---|---|--|
| Foundations of Arts, A V Technology, & Communications | Introduction to Television Production | Television - Writing, Producing, & Performing | CTE Lab in Arts, AV Technology, & Communications (THS TV, Sports Broadcasting, Adobe, & other specializations)<br>Or<br>Career Pathway Project (capstone) | Adobe Photoshop, Adobe Premiere Pro, Adobe After Effects |

*\*All students will take Foundations of AAVTC and Introduction to TV Production as their first and second year courses before choosing additional courses. A concentrator course may be taken concurrently with a CTE Lab or CTE Pathway Project Course.*

### **Foundations of Arts, A/V Technology, & Communications with embedded Career Prep A (Year 1)**

**Course Code** 11990G1001

1 credit; Lab fee required

This course is designed to introduce students to both print and broadcast media. Students who are interested in developing writing and computer skills should take this course. Foundations is designed to introduce students to the areas of Advertising Design, Animation, Commercial Photography, Graphic Arts, and Television Production. This course is appropriate for 9<sup>th</sup> or 10<sup>th</sup> grade students.

### **Introduction to Television Production (Year 2)**

**Course Code** 11051G1015

1 credit; Lab fee required; Prerequisite – Foundations of Arts, A/V Technology, & Communications

A one-credit course that provides students with knowledge of television production skills and operations. Students participate in classroom and laboratory experiences in television performance, production, and operations. This course is appropriate for 10<sup>th</sup> through 12<sup>th</sup> grade students.

### **TV Production-Writing, Producing, Performing**

**Course Code** 11051G1025

1 credit; Lab fee required

Prerequisite – Foundations of Arts, A/V Technology, & Communications, Introduction to Television Production, and application

TV Production provides students with a variety of real-world learning opportunities through laboratory experiences in television writing, producing, and performing. This course is appropriate for 10<sup>th</sup> through 12<sup>th</sup> grade students.

### **CTE Lab in Arts, A/V Technology, & Communications**

**Course Code** 11197G1002

1 credit; Lab fee required; Prerequisite – Foundations of Arts, A/V Technology, & Communications and 1 other TV Production specialization course. CTE Lab may be taken concurrently with a specialization course.

This course is an extended laboratory experience to address the advancement and specialization of careers within Arts, AV Television, and Communication through individualized or small group instruction. This course allows students to enhance the essential and intermediate skills learned through program courses within the career cluster and prepare for industry credentialing opportunities. This course is appropriate for 11<sup>th</sup> or 12<sup>th</sup> grade students.

### **Career Pathway Project – Arts, A/V Technology & Communications**

**Course Code** 11197G1001

1 credit; Lab fee required; Prerequisite – Foundations of Arts, A/V Technology, & Communications **and** 1 other TV Production specialization course. Career Pathway Project may be taken concurrently with a specialization course.

Career pathway project is designed for students who have completed a minimum of two career and technical education courses to select an area of interest; engage in in-depth exploration of the area; employ problem-solving, decision-making, and independent learning skills; and present a culminating pathway project before a selected audience. This course is for 11<sup>th</sup> and 12<sup>th</sup> grade students.

### **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. The Academy of Craft's goal is to help students get the education and skills they need to be entry-level, skilled workers in the construction industry.

Pathways include building construction, electrical, HVAC, interior and exterior finishes, and welding. These pathways may be subject to change per the Academy and/or the Alabama State Department of Education. All courses use the National Center for Construction Education and Research (NCCER) curriculum. Instructors are all industry professionals currently affiliated with local construction companies, post-secondary institutions, and/or national construction professional organizations.



The Academy of Craft is located in downtown Birmingham. Students will take an ACS bus to and from the facility each school day. Students are not allowed to drive their own vehicle. Students must complete an application and participate in an interview at the Academy of Craft facility. Only junior and senior students are eligible to participate.

If students or parents have questions about this program, please contact the Career Coach and the grade level counselor.

## **COURSES AND PATHWAYS CONTACTS**

Dr. Ratonya Mosley, 9<sup>th</sup> grade counselor,  
[ratonya.mosley@acsboe.org](mailto:ratonya.mosley@acsboe.org)

Laura Bentley Snowden, 10<sup>th</sup> grade counselor,  
[laura.snowden@acsboe.org](mailto:laura.snowden@acsboe.org)

Danleigh Jenkins, 11<sup>th</sup> grade counselor,  
[danleigh.jenkins@acsboe.org](mailto:danleigh.jenkins@acsboe.org)

Heather Myles, 12<sup>th</sup> grade counselor,  
[heather.myles@acsboe.org](mailto:heather.myles@acsboe.org)

Pam Vickers, College Counselor including dual enrollment and NCAA,  
[pam.vickers@acsboe.org](mailto:pam.vickers@acsboe.org)

Tony Huntley, Career Coach,  
[anthony.huntley@acsboe.org](mailto:anthony.huntley@acsboe.org)

Dr. Kristen Westwood, Assistant Principal of Curriculum and Instruction and Career Technical Education,  
[kristen.westwood@acsboe.org](mailto:kristen.westwood@acsboe.org)