

# CENTRAL HIGH SCHOOL



## 2020-2021 Course Selection Guide

**CENTRAL HIGH SCHOOL**

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## INTRODUCTION

The goal of Central High School is to provide an educational program that will empower all students to make choices and meet the challenges of the 21<sup>st</sup> century. Each student will follow three steps in selecting courses for the 2020-2021 school year.

1. Students will meet with counselors in small groups to discuss curriculum requirements.
2. Students and parents will study the course selection guide and make informed selections and return the signed request form for final approval.
3. Counselors and teachers will be available to discuss selections with students and parents.

With guidance, wise planning and careful selections, each student should have the opportunity to participate in an enriching and successful high school career.

## SCHEDULE CHANGE PROCESS

During the summer pre-registration or the first five days of the school year, the student must:

1. Discuss the proposed change with his/her parent(s) and sign up for a conference with their respective counselor.
2. Schedule changes will be considered only for legitimate changes: student has already taken and passed a course on their schedule, student has not passed the prerequisite for a course they are taking, the course is out of sequence or the student is missing a core class on their schedule.
3. Schedule changes will not be considered for: choosing a particular teacher, choosing to take a class during a particular time of day, trying to begin a class with another student, to get out of a class because of a particular student/teacher or to be in a particular lunch wave.
4. Upon receipt of a new schedule, the transfer is considered official, and the new schedule is in effect. **You are responsible for returning textbooks to the media center. Failure to do so will result in you being charged for the missing textbook(s).**

## RECOMMENDATIONS AND OVERRIDES

Students and parents should exercise extreme care in course selections as course selections have a direct bearing on future career decisions. Teachers are employed and textbooks are purchased based upon course selections. Once courses have been selected, the school is staffed to meet those demands. Staffing may not allow students to take their first choice on electives. Upperclassmen will have priority in scheduling electives. Parents should sign the registration sheet indicating approval of student's choices. No student's schedule will be considered complete until this approval has been received. **After the student has made a choice and the parent has approved it, no schedule change will be made except in emergency situations as determined by the school principal or his designee.**

Parent overrides must be made at pre-registration or during summer re-identification. The only schedule changes permitted within the first five days of school will be for scheduling errors. At no time will a student be permitted to take a course less demanding when the student has previously completed a higher-level course. Principals only may approve course changes during the first 5 days of the school year based on documented, extenuating circumstances.

**Counselors are not responsible for making schedule changes after the school year has begun.**

## **4-YEAR PLAN**

All students will enter 9<sup>th</sup> grade prepared and with a 4-Year Plan that addresses their individual academic and career interest needs. Students are assisted by their guidance counselor in the development and annual revision of their high school four-year educational/career plan. Additionally, students are required to maintain an educational/career planning portfolio of study based on legislative and other graduation requirements. The selection of the high school four-year educational plan shall be approved in writing by the parents or guardians and becomes part of the educational/career planning portfolio.

The student's educational/career plan is based on a career goal. This may be a cluster, pathway, or specific occupation. The plan outlines high school courses needed or suggested for reaching their career goal. The plan also outlines postsecondary education requirements needed to reach the student's career objective. Altogether, the plan reflects the courses that a student will have access to through their high school, Access, Dual Enrollment, the Career Technical Center, and Articulation.

There are four steps in the development of the 4-Year Plan. First, the student participates in an assessment of personal skills, interests, and abilities. Secondly, the assessment results are analyzed and the student identifies the connections between his or her skills, interests, and abilities to discover which cluster, pathway, or occupation for which he or she is best suited. Next the student correlates personal preferences, education, and training with workforce requirements to determine post-secondary needs. The final step in the process is where the student, with assistance from the Professional School Guidance Counselor, and with parent approval, determines the available secondary course requirements and opportunities that will enhance his or her success in postsecondary education and in the workforce. Through this process students gain an understanding of the relationship of academics to the world of work and to life at home and in the community.

All students will be required to create a four year plan and portfolio prior to graduation starting with the class of 2017. The plans and portfolios will be able to be used to apply to colleges and jobs. Students and parents may access the information by logging on to [www.alcareerinfo.org](http://www.alcareerinfo.org) to register as new users. Parents must contact one of the grade level counselors to receive a school activation code to access the student's information.

## **GRADUATION / CREDIT REQUIREMENTS**

### **Class of 2020 and beyond (25 credits required to graduate)**

For students to be permitted to move to the next higher grade level, the following standards must be met:

- **9th Grade** — students who have successfully completed middle school
- **9th to 10th Grade** — students who have earned six (6) Carnegie units will be classified as tenth graders
- **10th to 11th Grade** — students who have earned twelve (12) Carnegie units will be classified as eleventh graders
- **12th Grade** — students who have completed three full years and are entering their fourth year of high school (grades 9 - 12)

## **Alabama High School Diploma**

- 4 credits in English Language Arts
- 4 credits in Mathematics
- 4 credits in Science, including Biology, and a physical science
- 4 credits in Social Studies
- 1 credit in Life or equivalent
- ½ credit in Health Education
- 1 credit Career Preparedness
- 2½ or 3 ½ elective credits (depends on graduation year)
- 3 credits in Career Tech, Fine Arts, and/or Foreign Language

## **DIPLOMA ENDORSEMENTS**

### **Academic Honors Endorsement:**

- 14 honors level credit-bearing core classes in grades 8-12
- Minimum of Honors Algebra II with Trigonometry or Honors Algebra II with Statistics (for the Class of 2022, this requirement will no longer be applicable)
- 1 foreign language course

### **Technical Endorsement:**

- 3 sequenced courses in a Career Technical Field in addition to Career Preparedness

### **Fine Arts Endorsement:**

- 3 sequenced courses in fine arts

### **Foreign Language Endorsement:**

- 3 classes of sequenced foreign languages

## **DUAL ENROLLMENT**

The State Board of Education has adopted a policy which allows students with an overall B average to enroll in college classes and to receive both high school and college credit for these classes provided college tuition is paid. Central High School is currently engaged in a Dual Enrollment Plan with CVCC. Students are required to take the ACCUPLACER Test at CVCC when enrolling in a dual enrollment course. It is recommended that this testing be completed the summer prior to enrollment. Students placed at the Success Academy or New Beginnings are automatically not eligible for enrollment in these classes and will be removed if placement occurs after the start of the school year. **This also applies to all honors classes.**

## **ADVANCED PLACEMENT (AP)**

This is a program which offers college-level curricula to high school students. A culminating exam is given at the end of each course in which students earn a score of 1 through 5. American colleges and universities may grant placement and course credit to students who obtain high scores on the examinations (typically scores of 3 or higher depending on the accepting institution). The fee for each exam is \$94; however, students who qualify for free/reduced lunch will receive a fee reduction as determined by the state each year.

### **AP Requirements to earn credit:**

- **All students taking an AP course are strongly encouraged to take the AP Exam.**
- **Students taking the AP Exam will receive an exam score of 1 through 5.**
- **A “passing” score on the exam is determined by each student’s receiving college/university. Most schools award credit for scores of 3 or higher; however, some institutions require a higher passing score.**

## **GRADING INFORMATION**

The grading system at Central High School will reflect the student’s actual performance in all facets of learning. The following grading scale will be used:

90 – 100	= A
80 – 89	= B
70 – 79	= C
60 – 69	= D
59 – Below	= F

Report cards are issued at the end of each nine week grading period. Report cards will give numerical as well as letter grades.

## **COMMUNITY SERVICE HOURS**

The Phenix City Board of Education requires all students to complete 55 hours of community service in order to graduate. The recommended completion hours are as follows:

9th Grade	– 10 hrs
10th Grade	– 15 hrs
11th Grade	– 20 hrs
12th Grade	– 10 hrs

New students will only be required the number of hours from when they began in Phenix City Schools.

## **Important Terms for Central High School**

The last couple of years have seen numerous changes in the additional opportunities that we now have at Central to accelerate and catch up students through technology and distance learning. Below are some terms and programs that are now commonplace at Central that will assist you in mapping out the future of your son or daughter during his or her high school career.

## Edgenuity

This software allows students to take basic Internet courses in English, science, history, math, Integrated Computer Technology, health and foreign language curriculum. We use this software for students who get placed at the alternative school, credit recovery, grade recovery and for students who want to get ahead in the basic classes listed above. It is interactive software where recorded instruction is given with notes, lectures, quizzes and tests. All work can be done from any accessible Internet location, but tests must be taken in the presence of a certified teacher. Courses are student driven so they can work at an accelerated pace. **There is a \$75.00 fee for each ½ credit course taken and a \$150.00 fee for each 1 credit course taken, if taken outside of the regular school day. Students may not register for a class in Edgenuity for which they are currently enrolled during the school day.**

## ACCESS

ACCESS is a distance learning program where students have a certified teacher that is highly qualified in that specific subject teaching the course through the Internet. We offer this course during the normal school day as a specific period for students to take Credit Advancement or courses that are not offered at Central, such as Latin, German, etc. These courses are paced by the instructor located at another school in Alabama and last the entire semester, summer session, or school year. Information on the Access courses offered can be found at the end of this document. **There is a \$75.00 fee for each ½ credit course taken and a \$150.00 fee for each 1 credit course taken, if taken outside of the regular school day.** (See page 78 for more information.)

## Credit Recovery

This program is for those students who fail a class with a semester average between a 40 and 59 in those classes covered by the Edgenuity software listed above to recover that credit the following semester after school. The student only completes the objectives from the course that caused them to fail. This prevents the student from having to redo the entire course and allows them to recover that lost credit in a much shorter time frame. If a student fails the first half of a course the first semester, he/she must attend credit recovery during the second semester. If he/she fails the second half of a course second semester, he/she must do credit recovery during the summer. Again, utilizing the Edgenuity software, the student can work at a school computer lab after school or from another location that has Internet capability, and they can work at an accelerated pace. Students who do not complete credit recovery in the very next semester after they failed a course must do Grade Recovery. The maximum grade a student can receive in credit recovery is a 70, which will replace the failing grade of that course on the official transcript. **There is a \$75.00 fee for each ½ credit course taken.**

## Grade Recovery

This program is for those students who do not attend credit recovery in the prescribed time frame or made less than a 40 in the class they failed the previous semester. Using this program, students must redo the entire course utilizing the Edgenuity software. Also, students who want to try and achieve higher than a 70 on their transcript for a course they failed must choose Grade Recovery to do so. Current students who have failed courses prior to the school year can recover those credits utilizing this Grade Recovery tool and must do so in order to graduate if it was a required course. **There is a \$75.00 fee for each ½ credit course taken and a \$150.00 fee for each 1 credit course taken.**

## **Credit Advancement**

For those students wanting to get ahead, the ACCESS program is available. It may last an entire semester, school year or summer session (approximately 6 weeks) and is instructor driven through distance learning. Students must take all tests at Central in front of a facilitator utilizing either one of these options, but all other work may be accomplished from any Internet location. **There is a \$75.00 fee for each ½ credit course taken and a \$150.00 fee for each 1 credit course taken, if taken outside of the regular school day.**

In an effort to achieve maximum participation in all of these programs, the computer labs of Central are available from 4:00 p.m. until 5:30 p.m. Monday through Thursday during the school year. The computer labs will be open from 8:00 a.m. to noon and 12:30 pm to 4:30 pm Monday through Thursday during the summer and will replace the traditional summer school programs that have existed in the past.

**Students who passed Algebra I at South Girard with an 80 average or higher will have met the Algebra I requirement for an Alabama High School Diploma and will be issued credit on their transcript. Those students will still be required to earn four additional math credits in grades 9 – 12 if they wish to attain an Honors endorsement. Students who failed or passed Algebra I at South Girard with an average between 60 and 79 average will not be issued credit and will be required to re-enroll in Algebra I their 9<sup>th</sup> grade year. These requirements pertain to South Girard students only. Transferring institutions must issue credit.**

## **Central Fast Track**

This program is for those students who wish to complete their LIFE (physical education) and/or Driver's Education with Health requirement during the summer. There is a \$75 fee for each ½ credit of a course taken. An additional \$30 fee due to maintenance and fuel of the driver's education vehicle for Driver's Education is required.

## **Weighted Coursework**

Dual enrollment eligible, AP courses, and select Honors courses offered at Central High School are awarded an additional GPA point and ten points on their final average (for purposes of determining class rank/top ten percent only). Course requests by parental override are determined by the discretion of the administration.

- Honors English 10
- Honors / Dual Enrollment English 11
- AP English 11
- Honors / Dual Enrollment English 12
- AP English 12
- Honors Geometry with Data Analysis
- Honors Algebra II with Trigonometry
- Honors Algebra II with Statistics
- Honors Discrete
- Honors / Dual Enrollment Pre-Calculus
- AP Calculus
- Honors Anatomy/Physiology

- Honors / Dual Enrollment Biology I
- AP Biology
- Honors / Dual Enrollment Biology II
- Honors Chemistry
- AP Chemistry
- AP Physics I
- AP Physics II
- Honors Introduction to Biotechnology
- Honors / Dual Enrollment U.S. History I
- Honors / Dual Enrollment U.S. History II
- AP United States History
- AP Government & Politics
- Honors Economics
- Honors French III
- Honors Spanish III
- Honors Spanish IV
- Advanced Accounting
- Advanced Health Seminar
- Advanced Spa Techniques
- Auto Tech B
- Building Construction 5
- Commercial Masonry
- Culinary Arts II
- Honors AP Computer Science Principles
- AP Computer Science A
- Special Topics in Computer Science
- Education and Training Internship
- Health Science Internship
- NJROTC 4
- Welding 6
- HVAC/R Program



## ENGLISH COURSES

### **200009- English 10**

#### **1 credit**

This course begins with a review of grammar, the mechanics of the language, library skills, and vocabulary. Students will learn the skills necessary for paragraph writing and writing a complete research paper. The course also consists of literature and oral communications units. Literature will consist of selections from American literature, beginning with the Colonial period. Oral communications will stress such skills as speaking, listening, writing and critical thinking. This course includes application activities that teach the communication skills demanded in the workforce.

### **200010- Honors English 10**

#### **1 credit**

This course involves a brief review of grammar, mechanics of the language, and library skills. Paragraph writing, research skills and literature will be emphasized as well as oral communication. There will be weekly reading, writing and vocabulary assignments. A formal research paper will be a part of this course. Independent reading is required. The student must obtain their own book each semester, as assigned by the teacher. Students in this course are preparing for Honors/Dual Enrollment English in the eleventh and twelfth grades. *Prerequisite: A 90 or above average in prior English 9 course, or an 80 or above in English 9 Honors.*

#### **Summer Reading Requirements:**

- **The student must obtain their own reading materials (2 books) assigned by the teacher. Students are encouraged to utilize the school and local libraries to obtain these books.**
- **Two corresponding assignments will count as test grades**
- **See the school's website for the Summer Reading List.**

### **200013- English 11**

#### **1 credit**

This course will consist of grammar, American literature and composition. Emphasis will be on advanced skills and interpretations in reading, writing and vocabulary. During composition, students will learn how to choose a topic, research the topic, prepare a bibliography and write a documented research paper. This course contains application activities that teach the communication skills demanded in the workplace.

### **200014- Honors / Dual Enrollment English 11**

#### **1 credit**

This course involves a brief review of grammar, mechanics of the language, and library skills. Paragraph writing, composition, research skills, and literature will be emphasized. Students will read and analyze American literature throughout the course. There will be reading, writing, and vocabulary study assignments. A formal research paper is required. Independent reading is also required. The student must obtain their own book each semester, as assigned by the teacher. Students in this course are preparing for Honors/Dual Enrollment English 12. *Note: Students wishing to earn credit towards the honors endorsement but not wanting to earn any type of college credit (ie, dual enrollment or AP*

*credit) should take this course. Prerequisite: A 90 or above average in English 10 or 80 or above in Honors English 10*

**Dual Enrollment Requirements to earn credit for ENG 101:**

- **The student must register as a CVCC student through CHS.**
- **The student must pass the class with a 70 average and pay required CVCC course fee in order to receive Dual Enrollment credit.**
- **Students who register for dual enrollment may be required to provide one outside novel per semester.**
- **Grades for CVCC will only be reflected through six papers required by CVCC, and those grades may differ from the student's CHS grade.**
- **Final exams taken in a dual enrollment course may not be exempted.**

**Summer Reading Requirements:**

- **The student must obtain their own reading materials (1 book) assigned by the teacher. Students are encouraged to utilize the school and local libraries to obtain these books.**
- **One corresponding assignment will count as a test grade**
- **See the school's website for the Summer Reading List.**

**200016 - AP English 11**

**1 credit**

This course is designed to prepare students for post-secondary education. This course is a college-level advanced course following the curriculum established by the College Board Advanced Placement (AP) Program for English. It engages students in becoming skilled writers who compose for a variety of purposes. It also guides students in becoming skilled readers of prose written in a variety of rhetorical contexts. The focus of the class is to prepare students to successfully complete the AP Exam that is administered at the culmination of the course. *Note: This course is strictly for students wanting to earn college credit via the AP Exam. Prerequisite: A 90 or above average in English 10 or 80 or above in Honors English 10.*

**Summer Reading Requirements:**

- **The student must obtain their own reading materials (1 book) assigned by the teacher. Students are encouraged to utilize the school and local libraries to obtain these books.**
- **One corresponding assignment will count as a test grade**
- **See the school's website for the Summer Reading List.**

**200017- English 12**

**1 credit**

This course is designed to prepare students for post-secondary education. The year includes a review of grammar designed to prepare the student for composition and research. The course concentrates on British literature, and also includes a formal research paper. This course includes application activities that teach communication skills demanded in the workplace.

## **200018- Honors / Dual Enrollment English 12**

### **1 credit**

Designed for the college-bound student, the major focus of the course is a close study of a wide variety of literature, instruction in composition, writing assignments, regular vocabulary study, parallel reading assignments and nightly homework. Students will attend plays, films, lectures and other artistic offerings. Extensive outside reading is required and students must obtain their own book each semester. *Note: Students wishing to earn credit towards the honors endorsement but not wanting to earn any type of college credit (ie, dual enrollment or AP credit) should take this course. Prerequisite: One unit of Honors English 11 with an 80 or higher or English 11 with an 90 or higher.*

### **Dual Enrollment Requirements to earn credit for ENG 102:**

- **The student must register as a CVCC student through CHS.**
- **The student must have passed ENG 101 dual enrollment course previously.**
- **The student must pass the class with a 70 average and pay required CVCC course fee in order to receive Dual Enrollment credit.**
- **Students who register for dual enrollment may be required to provide one outside novel per semester.**
- **Grades for CVCC will only be reflected through six papers required by CVCC, and those grades may differ from the student's CHS grade.**
- **Final exams taken in a dual enrollment course may not be exempted.**

### **Summer Reading Requirements:**

- **The student must obtain their own reading materials (2 books) assigned by the teacher. Students are encouraged to utilize the school and local libraries to obtain these books.**
- **Two corresponding assignments will count as test grades**
- **See the school's website for the Summer Reading List.**

## **200020- AP English 12**

### **1 credit**

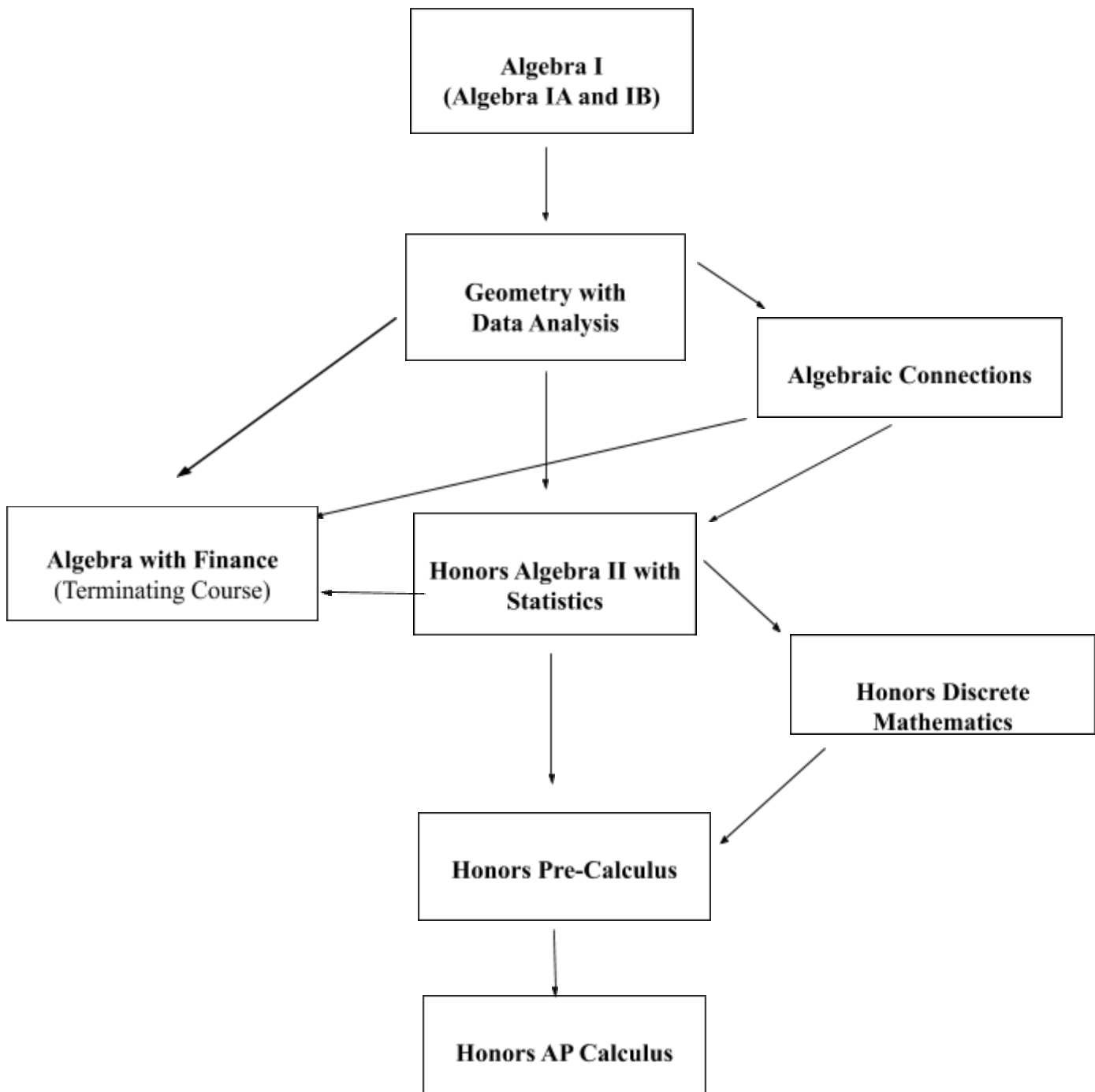
This course is a college-level advanced course following the curriculum established by the College Board Advanced Placement (AP) Program for English. It engages students in the careful reading and critical analysis of imaginative literature from several genres and periods from the 16th to the 21st century. Extensive writing of compositions will also be incorporated. The focus of the class is to prepare students to successfully complete the AP Exam that is administered at the culmination of the course. *Note: This course is strictly for students wanting to earn college credit via the AP Exam. Prerequisite: One unit of AP or Honors English 11 with an 80 or higher.*

### **Summer Reading Requirements:**

- **The student must obtain their own reading materials (2 books) assigned by the teacher. Students are encouraged to utilize the school and local libraries to obtain these books.**
- **Two corresponding assignments will count as test grades**
- **See the school's website for the Summer Reading List.**

## MATHEMATICS CURRICULUM FLOW CHART

-----Possible Course Progression-----



## MATHEMATICS COURSES

### **210009- Algebra IB**

**(Grade 10)**

**1 credit**

This 1 credit course provides the necessary completion of an Algebra I requirement when added with 1 credit of Algebra 1A. This course predominantly analyzes linear equations by writing equations in slope-intercept, point-slope, and standard forms. Students will solve linear inequalities and systems of linear equations and inequalities. Students will be required to explore polynomials, which will include adding, subtracting, multiplying and factoring. Students will solve equations by factoring and solve quadratic equations by using the quadratic formula. Students will simplify rational and radical expressions and equations. Calculators will be used extensively throughout this course. ***Prerequisite: Algebra IA***

### **210051- Geometry with Data Analysis**

**(Grades 10-11)**

**1 credit**

In this course, 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. **NOTE: Students are encouraged to have a Scientific Calculator. *Prerequisite for 2020-2021 only: Algebra I.***

### **210052- Honors Geometry with Data Analysis**

**(Grade 10)**

**1 credit**

In this course, 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. **TNOTE: Students are encouraged to provide their own scientific calculator. *Prerequisite for 2020-2021 only: 90 or higher in Algebra I.***

### **210015- Algebraic Connections**

**(Grades 10-12)**

**1 credit**

This course is designed for students who wish to increase their mathematical knowledge and skills prior to enrollment into Algebra II with Trigonometry or Algebra with Finance. It expands upon the concepts of Algebra I and Geometry, with an emphasis on application-based problems. This course provides opportunities to incorporate the use of technology through emphasis on applying functions to make predictions and to calculate outcomes. **Students who make below an 80 in Algebra I and Geometry will be recommended for this course. *Prerequisite: Completion of Algebra I (A/B) and Geometry.***

## **210036- Algebra with Finance**

**(Grade 12 only—terminating course)**

**1 credit**

This is a one-credit, career preparatory course that integrates algebra, probability and statistics, and geometry to solve financial problems that occur in everyday life. Real world problems involving investing, credit, banking, auto insurance, mortgages, employment, income taxes, budgeting and planning for retirement. Students are encouraged to use a variety of problem-solving skills and strategies. The course offers multiple opportunities to use, construct, question, model, and interpret financial situations through symbolic algebraic representations, graphical representations, geometric representations, and verbal representations.

## **210062- Honors Algebra II with Statistics**

**(Grades 10-12)**

**1 credit**

This course builds on the students' experiences in previous mathematics in Geometry, Geometry with Data Analysis and Algebra I. It sets the stage for continued study of topics specific to the student's interests and plans beyond high school and is the prerequisite for all other mathematics classes designed for completion of the students' fourth mathematics credit. *Prerequisite: 90 and above average in Algebra I (A/B) and Geometry.*

## **210018- Honors Discrete Mathematics**

**(Grades 11-12)**

**1 credit**

Discrete mathematics is a course designed for students who have successfully completed Algebra II with Trigonometry course and who choose not to continue mathematics study in Pre-Calculus. This course expands upon the topics of matrices, combinatorial reasoning, counting techniques, algorithms, sequences, series and their applications, as well as statistics and probability. Students are expected to work in both individual and group settings to apply problem-solving strategies and to incorporate technological tools that extend beyond traditional instructional practices. *Prerequisites: Algebra I, Geometry, and Honors Algebra II with Trigonometry.*

## **210020- Honors / Dual Enrollment Pre-Calculus**

**(Grades 11-12)**

**1 credit**

This course is designed primarily for those students considering careers in mathematical or scientific fields of study. Following the successful completion of Algebra II with Trigonometry, students are prepared for this challenging curriculum that includes an expanded study of polynomial functions, trigonometric functions, conic sections, logarithmic and exponential equations, and the real-life applications of these topics. Students will be challenged to defend and support their conclusions from problematic situations. Students will apply a variety of problem-solving strategies, incorporating the

use of graphing calculators or other technological tools that extend beyond the traditional paper-and-pencil drill and practice. **Students are highly recommended to purchase a TI-Nspire (nonCAS) Graphing Calculator.** *Prerequisite: One unit of Honors Algebra II with Trigonometry, one full unit of Geometry.*

**Dual Enrollment Requirements to earn credit for MTH 115:**

- The student must register as a CVCC student through CHS.
- The student must pass the class with a 70 average and pay required CVCC course fee in order to receive Dual Enrollment credit.
- Grades for CVCC may differ from the student's CHS grade.
- Final exams taken in a dual enrollment course may not be exempted.

**210025- AP Calculus**

**(AP / Dual Enrollment)**

**(Grade 12)**

**1 credit**

This is the first in the basic calculus sequence taken primarily by students in science, engineering, and mathematics. Topics include the limit of a function and their properties; the derivative of algebraic, trigonometric, exponential, and logarithmic functions, and the definite integral with its basic applications to area problems. Applications of the derivative are covered in detail, including approximations of error using differentials, maximum and minimum problems, related rate problems, and curve sketching. **Students are highly recommended to purchase a TI-Nspire (nonCAS) Graphing Calculator.** *Prerequisite: Pre-Calculus.*

**Dual Enrollment Requirements to earn credit for MTH 125:**

- The student must register as a CVCC student through CHS.
- The student must pass the class with a 70 average and pay required CVCC course fee in order to receive Dual Enrollment credit.
- Grades for CVCC may differ from the student's CHS grade.
- Final exams taken in a dual enrollment course may not be exempted.

## SCIENCE COURSES

*\*\*Any student meeting the prerequisites for AP Physics I or II and Dual Enrollment Biology or AP Biology may sign up for more than one science in one school year. This only pertains to the AP/Dual Enrollment Biology and AP Physics courses.*

### **220027- Honors Anatomy/Physiology**

**(Grades 11 and 12)**

**1 credit**

This course deals with the structure and function of the human body. The basic objective is to provide an in depth study of the systems of the body. The course consists of discussion and extensive laboratory dissections of various animal organs. **There is a \$20.00 supply fee for this course.**

***Prerequisite: B or better in biology.***

### **220013 - Honors / Dual Enrollment Biology I**

**(Grade 11)**

**1 credit**

This course is for students planning a career in biology, chemistry, biochemistry or a related field. Since it is part of the Advanced Placement program, the course includes material presented in a first-year college biology course. ***Prerequisite: Completion of Biology of an 80 or above.***

#### **Dual Enrollment Requirements to earn credit for BIO 103:**

- **The student must register as a CVCC student through CHS.**
- **The student must pass the class with a 70 average and pay required CVCC course fee in order to receive Dual Enrollment credit.**
- **Grades for CVCC may differ from the student's CHS grade.**
- **Final exams taken in a dual enrollment course may not be exempted.**

### **220014- AP Biology**

**(Grade 11-12)**

**1 credit**

This is a college-level advanced course following the curriculum established by the College Board Advanced Placement (AP) Program for biology. Topics of study include the following: scientific process and application skills; molecules; cells; heredity; evolution; organisms; populations. Since it is part of the AP Program, the course includes material presented in a first-year college biology course.

***Note: This course is strictly for students wanting to earn college credit via the AP Exam.***

***Prerequisite: Completion of Biology and Chemistry with an 80 or above average.***



## **220045 - Honors / Dual Enrollment Biology II**

**(Grade 12)**

**1 credit**

This course is for students planning a career in biology, chemistry, biochemistry or a related field. There will be specialized topics, processes, skills, applications, principles, and experimentation in life science. *Prerequisite: Completion of Honors Biology I with an 80 or above.*

### **Dual Enrollment Requirements to earn credit for BIO 104:**

- **The student must register as a CVCC student through CHS.**
- **The student must pass the class with a 70 average and pay required CVCC course fee in order to receive Dual Enrollment credit.**
- **Grades for CVCC may differ from the student's CHS grade.**
- **Final exams taken in a dual enrollment course may not be exempted.**

## **220081- Earth and Space Science**

**(Grades 11 - 12)**

**1 credit**

This class will involve the application of basic knowledge of physics, chemistry, and biology to our physical environment. It includes in depth surveys of historical geology, oceanography, meteorology, physical geology and fossil material. Outside projects, reading and additional materials are required.

## **220062- Honors Chemistry**

**(Grades 10 – 12)**

**1 credit**

Designed for the college-bound student, chemistry is a rigorous physical science that deals with the structure and composition of materials and the changes in the composition of these materials. **NOTE: Students are encouraged to have a Scientific Calculator.** *Prerequisite: C or better in Algebra I or higher math.*

## **220064 - AP Chemistry**

**(Grades 10 - 12)**

**1 credit**

College-level advanced course following the curriculum established by the College Board Advanced Placement (AP) Program for chemistry; atomic theory and structure; chemical bonding; nuclear chemistry; gases; liquids and solids; solutions; reaction types; stoichiometry; equilibrium; kinetics; thermodynamics. **NOTE: Students are encouraged to have a Scientific Calculator.** *Prerequisite: C or better in Honors Chemistry and C or better in Algebra II or higher math.*

## **220029- Environmental Science**

**(Grades 11 - 12)**

**1 credit**

This elective science course introduces students to the biosphere and the physical parameters that affect it. Students will study a variety of topics, including energy sources, environmental quality, and human practices and their effect on the environment. Outside projects, reading and additional materials are required.

## **220051- Physical Science**

**(Grade 10 - 12)**

**1 credit**

This physical science course provides the student with a background in physics and chemistry. It will aid students in determining areas of interest when choosing more advanced science courses and careers and developing a general understanding of basic science concepts. **NOTE: Students are encouraged to have a Scientific Calculator.**

## **220057 – AP Physics I**

**(Grades 11 and 12)**

**1 credit**

This is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. **NOTE: Students are encouraged to have a Scientific Calculator. Prerequisite: Completion of Algebra II with an 80 or above average.**

## **220058 - AP Physics II**

**(Grades 11 and 12)**

**1 credit**

College-level, algebra-based, introductory physics course following the curriculum established by the College Board Advanced Placement (AP) Program; provides a foundation for future course work in physics; 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; quantum, atomic and nuclear physics; facilitates inquiry-based learning designed to develop scientific critical thinking and reasoning skills. **NOTE: Students are encouraged to have a Scientific Calculator. Prerequisite: Completion of Algebra II with an 80 or above average.**

## **410025- Forensic and Criminal Investigations**

**(Grades 11 and 12)**

**1 credit**

This elective Science/Career Tech course focuses on the history of forensic science, criminal investigation, forensic serology and DNA, forensic studies in anthropology, toxicology, fingerprinting, firearms, physics, and document examination. **There is a \$20.00 supply fee for this course. Prerequisite: A credit of Chemistry or Physical Science and a C or higher in Biology and Physical Science.**

## **SOCIAL STUDIES COURSES**

### **230016- United States History I**

**(Beginnings to the Industrial Revolution)**

**(Grade 10)**

**1 credit**

This course is a required social studies course for students in Alabama schools. The course focuses on critical issues and events that encompass historic, economic, and political literacy. It is aimed at producing responsible citizens who have the ability to make informed decisions. Topics include the social, political, economic, religious, intellectual, geographical and aesthetic trends in the United States from pre-Columbus to the Industrial Revolution.

### **230017- Honors / Dual Enrollment United States History I**

**(Beginnings to the Industrial Revolution)**

**(Grade 10)**

**1 credit**

This course will consist of the following objectives: to study the major themes of U.S. history from the European background and founding of the first colonies to the Industrial Revolution; to reinforce study skills and to encourage students who possess a high degree of motivation to undertake a fair degree of self-guided, outside reading in addition to the requirements of the course; to create a greater awareness of both the world role of a major nation and the individual role of a responsible citizen. **This course uses a college textbook. Note: Students wishing to earn credit towards the honors endorsement but not wanting to earn any type of college credit (ie, dual enrollment or AP credit) should take this course. Prerequisite: A 90 or above average in prior World History course, or an 80 or above in Honors World History.**

**Dual Enrollment Requirements to earn credit for HIS 201:**

- **The student must register as a CVCC student through CHS.**
- **The student must pass the class with a 70 average and pay required CVCC course fee in order to receive Dual Enrollment credit.**
- **Grades for CVCC may differ from the student's CHS grade.**
- **Final exams taken in a dual enrollment course may not be exempted.**

### **230019 – United States History II**

**(The Industrial Revolution to the Present)**

**(Grade 11)**

**1 credit**

This course is a required social studies course for students in Alabama schools. It continues the study of United States History from the tenth grade course. Focusing on twentieth century America and beyond, this course elaborates on the knowledge and understanding gained during previous years that provide the foundation for critical analysis required in this course. The social, political, economic, religious, intellectual and aesthetic trends in the United States since 1877 will be studied as part of this course.

## **230020- Honors / Dual Enrollment United States History II**

**(The Industrial Revolution to the Present)**

**(Grade 11)**

**1 credit**

This course will consist of the following objectives: to study the major themes of U.S. history from 1877 to current issues; to reinforce study skills and to encourage students who possess a high degree of motivation to undertake a fair degree of self-guided, outside reading in addition to the requirements of the course; to create a greater awareness of both the world role of a major nation and the individual role of a responsible citizen. **This course uses a college textbook. Note: Students wishing to earn credit towards the honors endorsement but not wanting to earn any type of college credit (ie, dual enrollment or AP credit) should take this course. Prerequisite: A 90 average or better in U.S. History I or 80 average or better in Honors U.S. History I.**

**Dual Enrollment Requirements to earn credit for HIS 202:**

- **The student must register as a CVCC student through CHS.**
- **The student must pass the class with a 70 average and pay required CVCC course fee in order to receive Dual Enrollment credit.**
- **Grades for CVCC may differ from the student's CHS grade.**
- **Final exams taken in a dual enrollment course may not be exempted.**

## **230041- American Government**

**(Grade 12)**

The American government course is designed to educate students in the political process. Students will study the basic elements of democratic government. Current events are an integral part of the course. **This is a ½ credit course and required for the Alabama High School Diploma.**

## **230047 – AP Government & Politics**

**(Grade 12)**

This course is a college-level course for seniors that may be substituted for United States Government and is designed to give students a critical perspective on politics and government in the United States. This course involves both the study of general concepts and the analysis of primary sources. The AP course is distinguished from the regular course by the increased opportunity for supplemental reading, interpretation of primary sources, development of writing skills, and more intensive and extensive classroom discussion. In the spring, students will be given the opportunity to attend study sessions in preparation for the Advanced Placement exam that will be administered in May. **This is a ½ credit course and required for the Alabama High School Diploma. Prerequisite: A 90 average or better in U.S. History II or 80 average or better in Honors U.S. History II/AP U.S. History.**

## **230051- Economics**

**(Grade 12)**

The study of economics includes study of our country's resources, production, consumption, banking, and trade and tax system. The course also includes studies related to earnings and income, wise management of money and savings, and protection from loss through insurance and personal expenditures. **This is a ½ credit course and required for the Alabama High School Diploma.**

## **230052- Honors Economics**

**(Grade 12)**

The study of economics includes study of our country's resources, production, consumption, banking, trade, and tax system. The course also includes studies related to earnings and income, wise management of money and savings, and protection from loss through insurance and personal expenditures. Prerequisite 80 or better in Algebra I. This course has a strong focus on writing, business presentations, percentages, graphing, data interpretation and financial problem solving. **This is a ½ credit course and required for the Alabama High School Diploma. Prerequisite: A 90 average or better in U.S. History II or 80 average or better in Honors U.S. History II/AP U.S. History.**

## **FOREIGN LANGUAGE COURSES**

### **270153- Spanish I**

**1 credit**

The study of a foreign language contributes to a well-rounded education. Skills in understanding, speaking, reading and writing are gained. The student will profit from cultural and academic benefits of having learned a foreign language, regardless of vocational aspirations. *Prerequisites: C average or better in English.*

### **270154- Spanish II**

**(Grades 11 and 12)**

**1 credit**

This course offers the opportunity to extend skills, which will enable the students to express their ideas and desires to a native speaker and be understood. *Prerequisites: C average or better in Spanish I*

### **270155- Honors Spanish III**

**(Grades 11-12)**

**1 credit**

This course provides the opportunity to polish communication skills through everyday use of the language. Works of many Spanish and Latin American authors are read. *Prerequisites: Teacher recommendation and a unit of Spanish I and Spanish II.* **\*\*This course is dependent upon availability of instructor and class size requirements.**

### **270156- Honors Spanish IV**

**(Grades 11 and 12)**

**1 credit**

This course provides further experiences with listening and speaking. Students use their skills to learn about Hispanic literature. Creativity in language is encouraged. *Prerequisites: Teacher recommendation and a unit of Spanish III.* **\*\*This course is dependent upon availability of instructor and class size requirements.**

**\*\*\* Other foreign languages are available through ACCESS distance learning courses.**

## PHYSICAL EDUCATION AND HEALTH EDUCATION

### **Lifelong Individualized Fitness Education (LIFE)**

**(Grades 10-12)**

**1 credit**

**240002 - 9th Grade LIFE**

**240002aa - 10th Grade LIFE**

**240002ab - 11th Grade LIFE**

**240002ac - 12th Grade LIFE**

The goal of the LIFE course is for students to make physical activity a part of their lives beyond high school. The focus of the required high school physical education course is health-enhancing activity. LIFE provides a blueprint for a lifetime of healthy living. Students will learn to apply various aspects of fitness and to assess their own fitness levels. LIFE is not the traditional course composed of sports units. It utilizes a variety of health-enhancing activities derived from modifying sports and games as a vehicle for reinforcing and applying fitness components and principles. **ALL students must successfully complete this course to earn an Alabama High School Diploma. There is a \$5.00 locker fee and a \$10 replacement fee if lost. Students are required to wear athletic clothes and athletic shoes to dress out daily in order to participate.**

### **Athletic PE**

**(Grades 10-12)**

**240016- 9th Grade Athletic PE**

**240016aa - 10th Grade Athletic PE**

**240016ab - 11th Grade Athletic PE**

**240016ac - 12th Grade Athletic PE**

Elective course for students involved in sports programs at CHS. The class will consist of weight training 1-2 **times** per week, running/speed development, plyometric and various exercise techniques to enhance athletic performance. **Students are required to dress out daily in order to participate. Prerequisite: Students must participate in a CHS sport and have the coach's recommendation.**

### **250002ac – Health with Driver's Education**

**(Grade 10)**

**\*\* ½ credit**

The focus of this course is to provide students with further opportunities to apply health-related knowledge to personal life. Students will develop skills for accessing health information, products and services for current and future health needs and implement a personal health plan designed to decrease adolescent health risks. They will also distinguish between positive and negative impacts of families, cultural and religious groups and institutions, mass media and technology on health. Additionally, students will gain knowledge of the interdependence among environmental factors, learn to administer first-aid procedures (including CPR), and gain an understanding of the importance of recognizing, avoiding, and reporting verbal, physical, sexual and emotional abuse. Students will become competent in making health-enhancing decisions regarding the use of medications, avoiding harmful substances and communicating about substance use/abuse prevention.

## **290001- Driver and Traffic Safety Education**

**(Grades 10-12)**

**\*\*1/2 credit**

This course consists of 30 hours of classroom Instruction and at least 3 hours of behind-the wheel instruction on the road. Students who enroll for this course will receive a ½ credit of Driver's Education and ½ credit of Health/Wellness. There is a \$30 fee for fuel and maintenance that can be waived for those students that qualify.

*Students taking this course who score 80% or better on the Boating Safety test will be issued a certificate from the Alabama Marine Police which will entitle them to get the Vessel endorsement on their Alabama driver's license. Students who hold a valid Alabama learners license will have the opportunity to take a road test during class and if they pass will be issued an Alabama State Department of Education Issuance card which is valid for 1 year from the date of issue. This card may be taken to the Alabama Drivers Licenses office when the student has had their learner's license for 6 months and is 16 years of age and they will be issued a restricted driver's license.*



## **FINE ARTS COURSES**

**(Unless otherwise noted, each of these courses satisfies the fine arts requirement for an Alabama High School Diploma.)**

### **286100 - Visual Arts, Introduction to Visual Arts I**

**(Grades 9-12)**

**1 credit**

This novice-level course is the first of a sequential high school course. Creating, presenting, responding and connecting drive critical thinking, meaning, reflection, production and assessment to understand how visual arts communicate ideas and allows for self-expression. Through exploration and experimentation, this course provides students with a general foundation in studio processes, art criticism, aesthetics, and art history. Students respond to personal experiences and express ideas using a variety of traditional and contemporary media while effectively applying the elements of art and principles of design to create original works of art. Safe practices and proper use of tools and materials are emphasized. **A \$15.00 materials fee is required.**

### **286200 - Visual Arts, Visual Arts II**

**(Grades 10-12)**

**1 credit**

This intermediate-level course is the second of a sequential high school course. Creating, presenting, responding and connecting drive critical thinking, meaning, reflection, production and assessment to understand how visual arts communicate ideas and allows for self-expression. Through exploration and experimentation, this course provides students with a more in depth study of foundations in studio processes, art criticism, aesthetics, and art history. Students respond to personal experiences and express ideas using a variety of traditional and contemporary media while effectively applying the elements of art and principles of design to create original works of art. Safe practices and proper use of tools and materials are emphasized. **A \$15.00 materials fee is required. Prerequisite: Visual Arts, Introduction to Visual Arts I or Visual Arts I-II (old course codes 280093 and 280094) or Instructor Approval.**

### **286300 - Visual Arts, Visual Arts III**

**(Grades 11-12)**

**1 credit**

This accomplished-level course is the third of a sequential high school course. Creating, presenting, responding and connecting drive critical thinking, meaning, reflection, production and assessment to understand how visual arts communicate ideas and allows for self-expression. Through exploration and experimentation, this course provides students with a comprehensive study in studio processes, art criticism, aesthetics, and art history. Students respond to personal experiences and express ideas using a variety of traditional and contemporary media while effectively applying the elements of art and principles of design to create original works of art. Safe practices and proper use of tools and materials are emphasized. **A \$15.00 materials fee is required. Prerequisite: Visual Arts, Visual Arts II or Visual Arts I-IV (old course codes 280093, 280094, 280095, and 280096) or Instructor Approval.**

## **286400 - Visual Arts, Visual Arts IV**

**(Grade 12)**

**1 credit**

This advanced-level course is the fourth of a sequential high school course. Creating, presenting, responding and connecting drive critical thinking, meaning, reflection, production and assessment to understand how visual arts communicate ideas and allows for self-expression. Through exploration and experimentation, this course provides students with an advanced study in studio processes, art criticism, aesthetics, and art history. Students respond to personal experiences and express ideas using a variety of traditional and contemporary media while effectively applying the elements of art and principles of design to create original works of art. Safe practices and proper use of tools and materials are emphasized. **A \$15.00 materials fee is required. Prerequisite: Visual Arts, Visual Arts III or Instructor Approval.**

## **285100 - Introduction to Theatre 1**

**(Grades 9-12)**

**1 credit**

This one credit course, proficient level, explores beginning theatre, creating performing, responding and connecting drive, critical thinking, meaning, reflection production, and assessment to understand how theatre communicates ideas and allows for self-expression students will study, write or perform scenes and monologues. Students will also be introduced to basic history of theatre and technical theatre.

## **285203 - Acting Technique II**

**(Grades 10 - 12)**

**1 credit**

This one credit course accomplished level, focuses on specific acting techniques. Creating, performing and connecting drive, critical thinking, meaning, reflection, production and assessment through specific acting techniques. Self-expression and an understanding of how methods of acting may be used to communicate artistic ideas. Students will study, write and or perform scenes and monologues, use text analysis as well as character analysis to perform informal and formal productions. **Prerequisite for this course is a 70 over higher in Introduction to Theatre I.**

## **285303 - Acting Technique III**

**(Grades 11-12)**

**1 credit**

This one credit course, advanced level, focuses on specific acting techniques. Creating, performing, and connecting drive critical thinking, meaning, reflection, production and assessment through specific acting techniques. Students will refine self-expression and demonstrate an understanding of how methods of acting may be used to communicate artistic ideas. Students will continue to study, write and/or perform scenes and monologues, use text analysis as well as character analysis to perform informal and formal productions equivalent to college-preparatory or honors to reinforce a continued enjoyment of theatre. **Prerequisite for this course is a 70 over higher in Acting Technique II.**

## **285101 - Introduction to Musical Theatre 1**

**(Grades 9 - 12)**

**1 credit**

This one credit course, proficient level, explores beginning musical theatre. Creating, performing, responding and connecting drive critical thinking, meaning, reflection, production and assessment to understand how musical theatre communicates ideas and allows for self-expression. Students will use their beginning acting and musical talent to refine their musical theatre technique. Students will study the history of musical theatre and perform solo, duo and group musical theatre works. This class is a participation and performance based class. Attendance is imperative. There will not be any make up assignments for unexcused absences and anyone that has two unexcused absences from rehearsals will be removed from the show. *Prerequisite: Audition only. There is a \$50 class fee.*

## **285201 - Musical Theatre II**

**(Grades 10 - 12)**

**1 credit**

This one credit course accomplished level, continues the study of musical theatre. Creating, performing, connecting drive critical thinking, meaning, reflection, production and assessment to understand how communicates ideas and allow for self- expression. Students will use their beginning acting and musical talent to refine their musical theatre technique. Students will study the history of musical theatre and perform solo, duo and group musical theatre works. This class is a participation and performance based class. Attendance is imperative. There will not be any make up assignments for unexcused absences and anyone that has two unexcused absences from rehearsals will be removed from the show. *Prerequisite: Audition only. There is a \$50 class fee.*

## **285301 - Musical Theatre III**

**(Grades 11 - 12)**

**1 credit**

This one credit course accomplished level, continues the study of musical theatre. Creating, performing, connecting drive critical thinking, meaning, reflection, production and assessment to understand how communicates ideas and allow for self- expression. Students will use their beginning acting and musical talent to refine their musical theatre technique. Students will study the history of musical theatre and perform solo, duo and group musical theatre works. This class is a participation and performance based class. Attendance is imperative. There will not be any make up assignments for unexcused absences and anyone that has two unexcused absences from rehearsals will be removed from the show. *Prerequisite: Audition only. There is a \$50 class fee.*

## **285102 - Introduction to Technical Theatre**

**(Grades 9 - 12)**

**1 credit**

Students must have health insurance or purchase school insurance to be enrolled in this class. This one credit course, proficient level, explores beginning technical theatre. Creating, performing, responding

and connecting drive critical thinking, meaning, reflection, production and assessment to understand theater through a technical theatre experience. Students will learn beginning design principles, scenery, lighting, costuming and sound design for theatre productions. Students will study the history of theatre and an emphasis will be placed on the safe practices and proper use of tools, equipment and materials. This class is a participation and performance based class. Attendance is imperative. There will not be any make up assignments for unexcused absences and anyone that has two unexcused absences from rehearsals will be removed from the show. ***Prerequisite: Teacher approval through application.*** **There is a \$50 class fee.**

## **285207 - Scenic Design and Construction II**

**(Grades 10-12)**

### **1 Credit**

Students must have health insurance or purchase school insurance in order to be enrolled in this course. This one credit course, accomplished level, is an introduction to the principles, elements, and practicalities of methods, materials, concepts, and processes involved in the design and construction of scenery. Students will learn design functions, construction, painting, modeling, and theories of design. Students will study the history of theatre and an emphasis will be placed on the safe practices and proper use of tools, equipment and materials. This class is a participation and performance based class. Attendance is imperative. There will not be any make up assignments for unexcused absences and anyone that has two unexcused absences from rehearsals will be removed from the show. ***Prerequisite: Introduction to Theatre I, Design Tech or Musical Theatre I and teacher recommendation.*** **There is a \$50 class fee.**

## **285307 - Scenic Design and Construction III**

**(Grades 11 - 12)**

### **1 Credit**

Students must have health insurance in order to be enrolled in this class. This one credit course, advanced level, explores in depth the principles, elements, and practicalities of methods, materials, concepts, and processes involved in the design and construction of scenery. Students will learn design functions, construction, painting, modeling, and theories of design. Students will study the history of theatre and an emphasis will be placed on the safe practices and proper use of tools , equipment and materials. This class is a participation and performance based class. Attendance is imperative. There will not be any make up assignments for unexcused absences and anyone that has two unexcused absences from rehearsals will be removed from the show. ***Prerequisite: Scenic Design and Construction II and teacher recommendation.*** **There is a \$50 class fee.**

## **285205 - Costume Design and Construction II**

**(Grades 10 - 12)**

### **1 Credit**

Students must have proof of health insurance or purchase school insurance in order to be enrolled in this class. This one credit course, accomplished level, is an introduction to the principles, elements and practicalities of costume design and costume construction. Students will learn how to communicate design choices both visually and verbally through rendering techniques and research. An emphasis will be placed on the safe practices and proper use of tools, equipment and materials. This class is a participation and performance based class. Attendance is imperative. There will not be any make up assignments for unexcused absences and anyone that has two unexcused absences from rehearsals will

be removed from the show. *Prerequisite: Introduction to Theatre I or Musical Theatre I or Design Tech and teacher recommendation.* There is a \$50 class fee.

### **283600 - Intro to Mixed Chorus I**

### **283700 - Mixed Chorus II**

### **283800 - Mixed Chorus III**

### **283900 - Mixed Chorus IV**

**(Note: Appropriate course number depends on how many years the student has been in chorus.)  
(Grades 9-12)**

#### **1 credit**

This is a one credit course designed for students to explore choral music from a wide variety of cultures and time periods through academic study and performance. Music chosen for performance will include traditional choir music as well as gospel and church music. By creating, performing, and responding, students will develop basic vocal skills and sight-reading techniques. Allowing musical experiences to other cultures and disciplines within and outside of the arts, music history and theory are embedded so students may connect these experiences to historical relevance, contemporary issue, and self-reflection. This is a performance-based course in which membership is open to any student with a desire to participate in vocal performance. A very strict school and rehearsal attendance policy will be adhered to; participation work cannot be made and students will receive a 0 for any absences without a doctor's note. Participation at ALL performances is a requirement of the course. A \$25 class fee is required. *Prerequisite: no class prerequisite for Mixed Chorus I, previous Mixed Chorus course completion for upper level.*

### **283604 - Intro to Chamber Chorus I**

### **283704 - Chamber Chorus II**

### **283804 - Chamber Chorus III**

### **283904 - Chamber Chorus IV**

**(Note: Appropriate course number depends on how many years the student has been in chorus.)  
(Grades 9-12)**

#### **1 credit**

This is a one credit course designed for students to explore choral music from a wide variety of cultures and time periods through academic study and performance. By creating, performing, and responding, students will develop basic vocal skills and sight-reading techniques. Allowing musical experiences to other cultures and disciplines within and outside of the arts, music history and theory are embedded so students may connect these experiences to historical relevance, contemporary issue, and self-reflection. Prior knowledge of singing, reading music, and understanding musical concepts is required for membership. A very strict school and rehearsal attendance policy will be adhered to; participation work cannot be made and students will receive a 0 for any absences without a doctor's note. Participation at ALL performances is a requirement of the course. A \$25 class fee is required. *Prerequisite: Audition only; no class prerequisite for Chamber Chorus I, previous Chamber Chorus course completion for upper levels.*

**283605 - Intro to Show Choir I (Red Devil Resonance)**

**283705 - Show Choir II (Red Devil Resonance)**

**283805 - Show Choir III (Red Devil Resonance)**

**283905 - Show Choir IV (Red Devil Resonance)**

**(Note: Appropriate course number depends on how many years the student has been in show choir.)**

**(Grades 9-12)**

**1 credit**

This is a one credit course designed for students to explore popular music from a wide variety of cultures and time periods through academic study and performance. By creating, performing, and responding, students will develop basic vocal skills, choreography and movement and sight-reading techniques. Allowing musical experiences to other cultures and disciplines within and outside of the arts, music history and theory are embedded so students may connect these popular vocal style experiences to historical relevance, contemporary issue, and self-reflection. Attendance at ALL performances is a requirement of the course. A very strict school and rehearsal attendance policy will be adhered to; participation work cannot be made and students will receive a 0 for any absences without a doctor's note. **A \$25 class fee is required. Prerequisite: Audition only; no class prerequisite for Show Choir I, previous Show Choir course completion for upper levels.**

## **Red Devil Regiment Marching Band**

**(Grades 9-12)**

**\*\*1/2 credit**

**283203 - 9th Grade (Marching Band 2)**

**283303 - 10th Grade (Marching Band 3)**

**283403 - 11th Grade (Marching Band 4)**

**283503 - 12th Grade (Marching Band 5)**

1 credit received as enrolled in Symphonic Band, Concert Band, or Percussion Class

The Central High School Red Devil Regiment Marching Band is comprised of members of the Symphonic Band, Concert Band, Percussion Class, and the Visual Ensemble Classes. Red Devil Regiment rehearses after school and travels to at least one contest per season. Red Devil Regiment also performs at various parades, pep rallies, and other community events as requested. All members are given the opportunity to participate in fundraiser(s) in order to offset fees. **Students must meet No Pass-No Play Standards to participate in Marching Band. Prerequisite: Audition and/or Middle School Director Recommendation.**

## **Percussion Ensemble (Drum Line)**

**(Grades 9-12)**

**1 credit**

**283212 - 9th Grade (Percussion Ensemble 2)**

**283312 - 10th Grade (Percussion Ensemble 3)**

**283412 - 11th Grade (Percussion Ensemble 4)**

**283512 - 12th Grade (Percussion Ensemble 5)**

Members of the Percussion Class are members of the Red Devil Regiment Marching Band. They are expected to be well-trained musicians with competence in rudimental techniques as well as keyboard instruments. Membership is by audition and by recommendation from the Percussion Instructor. Selected Percussion members must be enrolled in the Percussion Class and are required to be members of the Red Devil Regiment Marching Band. Members of the Red Devil Regiment Marching Band are expected to be at all rehearsals and performances as determined by the band director. Students in Percussion Class will have the opportunity to exempt all physical education requirements. Members will also have the opportunity to perform with other percussion groups including, but not limited to, Concert Percussion Ensemble and Indoor Percussion Ensemble (additional fees are required for Indoor Percussion Ensemble members). **Students must meet No Pass-No Play Standards to participate in Marching Band. Prerequisite: Audition and/or Middle School Director Recommendation.**

## **Visual Ensemble Majorette (Color Guard/Majorette)**

**(Grades 10-12)**

**1 Credit**

**802208aa - 9th Grade (Color Guard/Majorette 2)**

**802208ae - 10th Grade (Color Guard/Majorette 3)**

**802208af - 11th Grade (Color Guard/Majorette 4)**

**802208ag - 12 Grade (Color Guard/Majorette 5)**

The Majorettes are members of the Red Devil Regiment Marching Band and perform as members of the Visual Ensemble. Members are expected to be well-trained twirlers, dancers, and performers. Membership is based on auditions done before a panel of judges during the spring of the preceding

year. Selected Majorettes must be enrolled in the Visual Ensemble Class and are required to be members of the Red Devil Regiment Marching Band. Members are expected to be at all rehearsals and performances as determined by the band director. Students in Visual Ensemble Classes will have the opportunity to exempt the physical education requirement. Members of the Visual Ensemble in good standing will have the opportunity to audition and participate in Winter Guard. The Winter Guard is an auditioned group that rehearses and performances determined by the band director. Members of the Visual Ensemble in good standing will have the opportunity to audition and participate in Winter Guard. The Winter Guard is an auditioned group that rehearses and competes in (Additional fees are required for Winter Guard participants). **Students must meet No Pass-No Play Standards to participate in Marching Band.**

## **802208aa- Visual Ensemble Color Guard(Color Guard/Majorette)**

**(Grades 10-12)**

**1 Credit**

**802208aa - 9th Grade (Color Guard/Majorette 2)**

**802208ae - 10th Grade (Color Guard/Majorette 3)**

**802208af - 11th Grade (Color Guard/Majorette 4)**

**802208ag - 12 Grade (Color Guard/Majorette 5)**

Members of the Color Guard are members of the Red Devil Regiment Marching Band and perform as members of the Visual Ensemble. Members are expected to be well-trained performers utilizing flags, rifles, and sabers. Membership is based on auditions done before a panel of judges during the spring of the preceding year. Those selected to be members of the Color Guard must be enrolled in the Visual Ensemble Class and are required to be members of the Red Devil Regiment Marching Band. Members are expected to be at all rehearsals and performances as determined by the band director. Students in Visual Ensemble Classes will have the opportunity to exempt the physical education requirement.

Members of the Visual Ensemble in good standing will have the opportunity to audition and participate in Winter Guard. The Winter Guard is an auditioned group that rehearses and Members are expected to be at all rehearsals and performances as determined by the band director. The Winter Guard is an auditioned group that rehearses and competes in the 2<sup>nd</sup> Term. (Additional fees are required for Winter Guard participants). **Students must meet No Pass-No Play Standards to participate in Marching Band. Prerequisite: Audition**



## **Band Solo and Ensemble**

**(Grades 10-12)**

**1 credit**

**283206 - 9th Grade (Solo & Ensemble 2)**

**283306 - 10th Grade (Solo & Ensemble 3)**

**283406 - 11th Grade (Solo & Ensemble 4)**

**283506 - 12th Grade (Solo & Ensemble 5)**

Students are selected from the wind player membership of the Central High School Band program to participate in Band Solo and Ensemble Class. All students must be enrolled in either Concert or Symphonic Band and are placed into Solo and Ensemble Class by director recommendation. Members of the class are expected to be well-trained musicians and audition for All-State Band and participate in Solo and Ensemble Festival. Students will have the opportunity to prepare for various honor bands, college auditions as well as study music theory and pedagogy. **FINANCIAL OBLIGATION:**

**All-State Audition, Solo and Ensemble Fees, Honor Band Fees. *Prerequisite: Audition and/or Director Recommendation.***

## **Symphonic Band**

**(Grades 9-12)**

**1 credit**

**283200 - 9th Grade (Symphonic Band 2)**

**283300 - 10th Grade (Symphonic Band 3)**

**283400 - 11th Grade (Symphonic Band 4)**

**283500 - 12th Grade (Symphonic Band 5)**

The Symphonic Band is the premier ensemble for the Central High School Band program. Symphonic Band members are auditioned for placement each year and must follow strict standards of performance and exhibit the highest standards of musicianship and behavior. The high school band director must approve entrance for any student in Symphonic Band. All students in Symphonic Band are also required to be members of the Red Devil Regiment Marching Band. The Symphonic Band will perform several concerts throughout the season and participate in Music Performance Assessment, All-State Band, and other concerts as determined by the band director. Members in the Symphonic Band will be required to attend all concerts and rehearsals for the band program. Students in Symphonic Band will have the opportunity to exempt the physical education requirement.

***Prerequisite: Audition and/or Director Recommendation.***

## **Concert Band**

**(Grades 9-12)**

**1 Credit**

**283200ab - 9th Grade (Concert Band 2)**

**283300aa - 10th Grade (Concert Band 3)**

**283400aa - 11th Grade (Concert Band 4)**

**283500aa - 12th Grade (Concert Band 5)**

The Concert Band is the secondary ensemble for the Central High School Band program. Concert Band members are auditioned for placement each year and must follow strict standards of performance and exhibit the highest standards of musicianship and behavior. The high school band director must approve entrance for any student in Concert Band. All students in Concert Band are also required to be

members of the Red Devil Regiment Marching Band. The Concert Band will perform several concerts throughout the season and participate in Music Performance Assessment, All-State Band, and other concerts as determined by the band director. Members in the Concert Band will be required to attend all concerts and rehearsals for the band program. Students in Concert Band will have the opportunity to exempt the physical education requirement. ***Prerequisite: Audition and/or Director Recommendation.***

## **OTHER ELECTIVES**

### **802206aa- Media Exploratory Services**

**(Grade 12)**

This course is designed to provide students with the opportunity to become familiar with library operations and information resources. Students will be expected to assist students and teachers in locating print, non-print and computer-based information within the library network and through telecommunications. In addition, they will gain experience in many other aspects of library activities, including, but not limited to, circulation, processing of materials, operating library equipment, and taking inventory. Students must be willing to work with others, take responsibility seriously and have excellent attendance and academic records. *Prerequisite: Media specialist and administrator approval required.*

### **802206- Office Exploratory Experiences**

**(Grade 12 or completion of Teaching I / Education Training 2 courses)**

This course is designed to familiarize students with school office services and procedures as well as pupil personnel services. Students will gain experience in receptionist duties, i.e., typing, filing, answering the telephone, and helping office personnel with various other tasks. Promptness, office etiquette, work attitude, and communication skills will be stressed. Students must have excellent attendance and academic records. *Prerequisite: Counselor/Administrator approval required and student cannot have had any Class II or III discipline entries in previous year and must be on track to graduate.*

### **600304 - Transition Services 9**

**(Grades 9-12)**

Students will develop fundamental transition skills needed for positive post-school outcomes. Instruction for this course may take place both within the classroom and the community.

**Note: Students will be placed in this elective course based on need.**

### **600305 - Transition Services 10**

**(Grades 9-12)**

Students will develop fundamental transition skills needed for positive post-school outcomes. Instruction for this course may take place both within the classroom and the community.

**Note: Students will be placed in this elective course based on need.**

### **600306 - Transition Services 11**

**(Grades 9-12)**

Students will develop fundamental transition skills needed for positive post-school outcomes. Instruction for this course may take place both within the classroom and the community.

**Note: Students will be placed in this elective course based on need.**

## **600307 - Transition Services 12**

**(Grades 9-12)**

Students will develop fundamental transition skills needed for positive post-school outcomes.

Instruction for this course may take place both within the classroom and the community.

**Note: Students will be placed in this elective course based on need.**

**Other courses not offered by CHS are available in the ACCESS Distance Learning program (see course list on page 78).**

## **SERVICES OFFERED UNDER IDEA**

**(Individuals with Disabilities Education Act)**

**Enrollment in these courses is based on an individualized education program for those students pursuing the Alabama High School Diploma via the Essentials Pathway.**

## **ENGLISH LANGUAGE ARTS**

### **700006- English Essentials 10**

**1 credit**

This is a 10th grade course designed to provide a practical knowledge of reading, literature, writing and language, research and inquiry, and oral and visual communication.

### **700007- English Essentials 11**

**1 credit**

This is an 11th grade course designed to provide a practical knowledge of reading, literature, writing and language, research and inquiry, and oral and visual communication.

### **700008- English Essentials 12**

**1 credit**

This is a 12th grade course designed to provide a practical knowledge of reading, literature, writing and language, research and inquiry, and oral and visual communication.

## **MATHEMATICS**

### **700017- Algebraic Essentials B**

**(Grade 10)**

**1 credit**

This course provides students with foundational skills identified in the second half of the general education Algebra I course. The course includes essential concepts to equip students with the algebra skills necessary for employment and independent living.

### **750651 – Geometry Essentials**

**(Grade 11)**

**1 credit**

This course provides students with foundational skills identified in the general education Geometry course. The course includes essential concepts to equip students with the geometry skills necessary for employment and independent living.

### **750801 – Essentials Algebra with Finance**

**(Grade 12)**

**1 credit**

This course integrates algebra, probability and statistics and geometry to solve financial problems that occur in everyday life. Real world problems involving investing, credit, banking, auto insurance, mortgages, employment, income taxes, budgeting and planning for retirement. Students are

encouraged to use a variety of problem-solving skills and strategies. The course offers multiple opportunities to use, construct, question, model, and interpret financial situations through symbolic algebraic representations, graphical representations, geometric representations, and verbal representations.

## **SCIENCE**

### **750101 – Essentials Physical Science**

**(Grade 10)**

**1 credit**

This physical science course provides the student with a background in physics and chemistry. It will aid students in determining areas of interest when choosing more advanced science courses and careers and developing a general understanding of basic science concepts.

### **750301- Essentials Earth and Space Science**

**(Grade 11)**

**1 credit**

This course is designed to provide students with practical knowledge of Earth and Space Science including scientific process and application skills; energy in the Earth system; weather; seasons; theories for the origin and age of the universe; stars, pulsars, quasars, black holes, and galaxies; Earth and space scientists; space exploration.

### **750401- Essentials Environmental Science**

**(Grade 12)**

**1 credit**

This course is designed to provide students with a practical knowledge of Environmental Science 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; composition and erosion of soil.

## **SOCIAL STUDIES**

### **700032- Essentials U.S. History to 1877**

**(Grade 10)**

**1 credit**

This course follows a chronological study of major events, issues, movements, leaders, and groups of people of the United States through Reconstruction from a national and Alabama perspective.

### **700033- Essentials U.S. History from 1877**

**(Grade 11)**

**1 credit**

This course begins with the post-Reconstruction United States and its shift into a more industrialized society and continues through the twentieth century to the present.

### **700034- Essentials Economics**

**(Grade 12)**

**\*\*1/2 credit**

This course is a one-semester course that focuses on the functions and institutions of modern-day economic systems and theory. Students gain skills that will enable them to anticipate changes in economic conditions and how to adjust to the changes to improve their lives and their communities.

### **700035- Essentials U.S. Government**

**(Grade 12)**

**\*\*1/2 credit**

This course is a one-semester course that focuses on the origins, structure, and functions of government at all levels. It also includes a detailed study of the constitution of the United States and its provisions.

### **Required Course for Graduation**

#### **400025- Career Preparedness**

**(Grades 10-12)**

This one credit course prepares students with content knowledge and skills in the areas of career development and academic planning, computer skill application, and financial literacy. **This is a required course to graduate.**

## **CAREER TECHNICAL COURSES**

***Career Technical Student Organizations (CTSO's)*** - Every Career Technical program has an associated Student Organization. These organizations are an integral part of the curriculum. They provide opportunities to apply instructional competencies and workplace readiness skills, enhance leadership development skills, and provide opportunities for community service. **The majority of field trips, extracurricular activities, and competitions will be limited to the membership of the Career Technical Student Organizations. Students are strongly encouraged to join these organizations.**

**Fees-** There are fees for some career tech courses. Once the term has begun, the fee is non-refundable. The fee will cover additional supplies needed for the class.

**Insurance-** Many of the courses in the Career Technical section require proof of insurance. If you do not have medical insurance of your own, information is available regarding school day insurance programs that will meet the requirement.

## **BUSINESS EDUCATION DEPARTMENT**

The Career Technical Student Organization for classes in business is **Future Business Leaders of America (FBLA)**.

**\*\*Business Technology Applications is a foundation course for all three of the Business Education pathways: Business and Administration, Marketing, and Finance. To complete any program, a student must earn credit in at least three full credit courses in a core area. The 1 credit Career Preparedness course is not a Business Education class and does not count toward completion of any program.**

### **450006- Business Technology Applications (Foundations Course)**

**(Grades 9 – 12)**

**1 credit**

This course provides students with project- based work using concepts of software applications learned in Business Technology Applications to include creating on-line forms, document sharing, merging information from a database, creating statistical and logical functions in spreadsheets, navigating a database, creating a multimedia resume, integrating application software, and research. **Qualifying completers of this course will be eligible to be tested to receive Microsoft Office Specialist Certification in one or more areas.**

### **400122, 400133, 400144, 400212- Cooperative Education**

**(Grades 11– 12)**

This course is designed to assist advanced students in obtaining and maintaining employment in occupations in their chosen career pathway. It enhances students' skills, attitudes, and habits to be able to become employed and progress in the world of work. Students update their career portfolios in order to increase their opportunities for meaningful employment and placement in the local business community. Students are required to meet with their coordinator for one period per week in addition to working- Students typically attend classes for half of the day and work for half of the day. Some



placements may be internships in the student's career pathway. **The fee for Cooperative Education (Co-op) is \$25 which covers the entire year.** *Prerequisites: Successfully completed three courses in the student's career pathway/cluster OR be simultaneously enrolled in course work that would lead to completer status, possess a valid driver's license, show proof of insurance, provide transportation and receive teacher approval.*

### **400016- Workforce Essentials**

**(Grade 11 or 12)**

**1 credit**

This course is designed to prepare students for occupations in their chosen career pathway. It provides the opportunity to enhance skills, attitudes, and habits consistent with their career field for successful employment. Emphasis is placed on employment regulations, employer expectations, safety, teamwork, self-management and employment documentation. Students develop a career plan, career portfolio, and enhance their opportunities for future employment. **This is a required course for students on the Essentials Pathway.** *Prerequisite: Completion of two core courses in a program.*

### **Business Management Core**

#### **480011- Management Principles**

**(Grades 10 – 12)**

**1 credit**

This course is designed to aid students in becoming more knowledgeable about business ownership and administration on a day-to-day basis. Emphasis is placed on work attitudes, ethics, and skills necessary for workplace success. Students are involved in activities that require the use of problem-solving abilities. Communication, computation, word processing and records management skills are integrated into the instructional units through the use of simulations. Telecommunications and information processing are also covered in this course to include Internet, e-commerce, presentations and research. Students will examine business ownership and the responsibilities of managing a business.

*Prerequisite: Completion of Business Technology Applications (BTA).*

#### **410016- Multimedia Design**

**(Grades 10 – 12)**

**1 credit**

This course is designed to provide students with skills involving presentations, desktop publishing, web site publishing and digital graphics. Students use various hardware peripherals as well as the Internet for integrating skills to create a variety of publications. **Qualifying completers of this course will be eligible to be tested to receive Microsoft Office Specialist Certification in one or more areas.** *Prerequisite: Completion of Business Technology Applications (BTA).*

#### **410017 - Multimedia Publications/Yearbook**

**(Grades 10-12)**

**1 credit**

This course is designed to provide students with skills involving presentations, desktop publishing, web site publishing and digital graphics. Students use various hardware peripherals as well as the

Internet for integrating skills to create a variety of publications to create the school yearbook, the Red and Black. Activities include writing, editing, preparing copy, design and layouts. Students are required to sell ads to the local business community for this course. After school work is required when deadlines must be met. Qualifying completers of this course will be eligible to be tested to receive Microsoft Office Specialist Certification in one or more areas. ***Prerequisite: Completion of Business Technology Application (BTA) or an equivalent course; An overall B average and two letters of recommendation with one of them being from the current year's English teacher and sponsor approval.***

### **410017- Multimedia Publications**

**(Grades 10-12)**

**1 credit**

This course provides students with skills involving desktop publishing and digital graphics. Students use various hardware peripherals and software, such as Microsoft Publisher to create business publications. **Qualifying completers of this course will be eligible to be tested to receive Microsoft Office Specialist Certification in one or more areas. Prerequisite: Completion of Business Technology Applications (BTA).**

### **410023- Law in Society**

**(Grades 10 – 12)**

**1 credit**

This course provides an overview of the law and the judicial system. Economic and social concepts are explored as they relate to the legal principles and to business and personal laws. Emphasis is placed on business law as it affects young adults with a focus on the rights and responsibilities of students as citizens, consumers, and employees. Some topics which are discussed are criminal law, civil law, torts, contracts, insurance, and bailments. ***Prerequisite: Completion of Business Technology Applications (BTA).***

## **Finance Core**

### **470012- Accounting**

**(Grades 10 – 12)**

**1 credit**

This course is designed to place emphasis on basic principles, concepts, and procedures of accounting. Students are introduced to techniques of bookkeeping and how to start and operate a business by using simulations related to sole proprietorships and partnerships. **Qualifying completers of this course will be eligible to be tested to receive Microsoft Office Specialist Certification in one or more areas. Prerequisite: Algebra I or its equivalent; Completion of Business Technology Applications (BTA).**

### **470013- Advanced Accounting**

**(Grades 10 – 12)**

**1 credit**

This weighted course offers increased emphasis on accounting procedures and techniques for solving business problems and making financial decisions. Students use accounting and/or spreadsheet software to record, analyze and interpret financial records. Students also complete work on advanced

simulations for managerial and corporate accounting. **Qualifying completers of this course will be eligible to be tested to receive Microsoft Office Specialist Certification in one or more areas. Successful completion of Accounting and Advanced Accounting will result in college credit for the 1<sup>st</sup> year Accounting course via state-wide articulation. *Prerequisite: Accounting***

### **450021- Business Finance**

**(Grades 10-12)**

**1 credit**

A one credit course designed to provide students with an overview of the principles of business finance. The curriculum focuses on economics, marketing, accounting procedures, and the global financial market. **Qualifying completers of this course will be eligible to be tested to receive Microsoft Office Specialist Certification in one or more areas. *Prerequisite: Completion of Business Technology Applications (BTA).***

### **470011- Banking and Financial Services**

**(Grades 10 – 12)**

**1 credit**

This course offers increased emphasis on the procedures and techniques used to solve business problems and make sound financial decisions. It gives a more in depth overview of national/international business and social and economic environment of business. Emphasis will include hands-on activities, simulations, and work-based learning activities at area banks, mortgage companies and security/investment firms in the area, which will lead to employment in the financial field. This opportunity can possibly lead to employment in the financial field. Students participating in the work-based shadow/internships must adhere to acceptable standards of dress, conduct and confidentiality required in the workplace.

**Qualifying completers of this course will be eligible to be tested to receive Microsoft Office Specialist Certification in one or more areas. *Prerequisite: Business Finance.***

### **Marketing Core**

#### **550011- Marketing Principles**

**(Grades 10-12)**

**1 credit**

This course provides students with an advanced study of marketing concepts and techniques. Focus is placed upon marketing functions, entrepreneurship concepts, national and global economics, international marketing careers. Hospitality and tourism, advertising, retail management, distribution and trade are emphasized. Students will participate in FBLA as an integral part of this course. **Qualifying completers of this course will be eligible to be tested to receive Microsoft Office Specialist Certification in one or more areas. *Prerequisite: Completion of Business Technology Applications (BTA).***

#### **410026- Commerce Communication**

**(Grades 10 – 12)**

**1 credit**

This course provides students with the business communication skills necessary in today's society. Students will develop written, oral, and electronic business communication skills which will aid them

in college and in the workforce. Note taking skills will also be developed to help students succeed in college and on the job. **Qualifying completers of this course will be eligible to be tested to receive Microsoft Office Specialist Certification in one or more areas. Prerequisite: Business Technology Applications (BTA).**

### **550021- Sales and Promotion Planning**

**(Grades 10 – 12)**

**1 credit**

This course provides the tools necessary for the development, implementation, and management of promotional programs. The focus is on utilizing promotional knowledge and skills for communicating information to achieve a desired outcome. Students develop skills related to advertising, publicity, special events, visual merchandising, displays, and promotional campaigns to aid in promotional planning. They learn to manage the sales function of marketing to determine client needs and wants and to respond through planned, personalized communication. Students will participate in FBLA activities as an integral part of this course. **Qualifying completers of this course will be eligible to be tested to receive Microsoft Office Specialist Certification in one or more areas. Prerequisite: Business Technology Applications (BTA) and Marketing Principles.**

### **550012 – Internet Marketing**

**(Grades 10-12)**

**1 credit**

This is a one-credit course which focuses on applying tools, strategies and processes to communicate digitally with targeted customers. Emphasis is placed on creating, implementing, and critiquing online advertising, email marketing, websites, social media, mobile marketing, search-engine optimization, video/image, and podcasts/webcasts. Students will apply management techniques to guide and control digital communication efforts. They will also create and repurpose content for use in digital environments. Technology, employability skills, leadership and communications will be incorporated in classroom activities. **Prerequisite: Business Technology Applications (BTA) and Marketing Principles, Sales and Promotion, Commerce Communication, or Sports and Entertainment Fundamentals.**

**BUSINESS COURSE PROGRESSION**

**50006 Business Technology Application (BTA)**

This is an introductory course for all Business pathway programs outlined below and will serve as the 1<sup>st</sup> class toward program completion. Completer status is obtained when a student completes 3 sequenced courses within the same program.



After completion of BTA, students should be guided to take two courses from any of the programs outlined below before switching to a different column or pathway.

Business Management & Administration	Finance	Marketing
480011 Management Principles	470012 Accounting	550011 Marketing Principles
410016 Multimedia Design	470013 Advanced Accounting	410026 Commerce Communication
410017 Multimedia Publication	450021 Business Finance	550013 Sports & Entertainment Marketing
410023 Law in Society	470011 Banking & Finance	550021 Sales and Promotion

**400016 Workforce Essentials\***

\*This course is an elective for any of the 3 Business pathways and is required for students on the Essentials Pathway. It will serve as 1 of the 3 courses required for any Business pathway completion.

“Completer” status earned with three full courses credits in the same pathway *NOT INCLUDING* Career Preparedness. Being a “completer” could qualify you to apply for the Henry Fleming Scholarship your senior year.

**Example:** 450006 BTA + 410016 Multimedia Design + 410017 Multimedia Publications = Business Management & Administration Completer

**400122, 400133, 400144, 400212 Cooperative Education Seminar (Co-op)**

Only “completers” are eligible for co-op placements. An application process and other restrictions apply (see course description).

## GOVERNMENT/ADMINISTRATION

### **480061- Naval Science I**

**(Grades 10 – 12, 1st year cadets only)**

**1 credit**

The purpose of this one credit course is to introduce students to the precepts of citizenship, the elements of leadership, and the value of scholarship in attaining life goals. It is also designed to engender a sound appreciation for the heritage and traditions of America, with recognition that the historically significant role of sea power will be important in America's future, and develop in each cadet a growing sense of pride in his/her organization, associates and self. These elements are pursued at a fundamental level. Students will participate regularly in physical fitness and military drill. **This course may be substituted in place of the required LIFE course. Additionally, it may also be substituted in place of the Career Preparedness course. The fee for this course is \$25 per semester. Dress uniforms are provided for student use, but are the property of the US Navy and must be returned at the end of the school year. PT uniforms are provided and become the property of the student.**

### **480062- Naval Science II**

**(Grades 10 – 12)**

**1 credit**

This one credit course is designed to engender a sound appreciation for the heritage and traditions of America, with recognition that the historically significant role of sea power will be important in America's future, and to develop in each cadet a growing sense of pride in his/her organization, associates and self. These elements are pursued at a more advanced level than in NSI. In addition, cadets will continue with the instruction of Naval Science, to include military history, astronomy, meteorology and geography. Students will participate regularly in physical fitness and military drill. **The fee for this course is \$25 per semester. Dress uniforms are provided for student use, but are the property of the US Navy and must be returned at the end of the school year. PT uniforms are provided and become the property of the student.**

### **480063- Naval Science III**

**(Grades 11 and 12)**

**1 credit**

The purpose of this one credit course is to further develop traits of leadership in students and to introduce cadets to the vital importance of military justice, international law, and to continue with the instruction of Naval Science, to include naval operations and support functions, introduction to ship construction and damage control, basic seamanship and Naval weapons and aircraft. Cadets will be instructed on ongoing instruction in leadership, citizenship and discipline. Provide an understanding of the facets of sea power, national security and naval history. Students will participate regularly in physical fitness and military drill. **The fee for this course is \$25 per semester. Dress uniforms are provided for student use, but are the property of the US Navy and must be returned at the end of the school year. PT uniforms are provided and become the property of the student.**

## **480064- Naval Science IV**

**(Grades 12)**

**1 credit**

This one credit course will build on the basic qualities of a good follower and an effective leader provided in Naval Science I, II, and III. The cadet will take a more in-depth look at what leadership is and how to maximize his/her abilities in the area of leadership. Students will participate regularly in physical fitness and military drill. **The fee for this course is \$25 per semester. Dress uniforms are provided for student use, but are the property of the US Navy and must be returned at the end of the school year. PT uniforms are provided and become the property of the student.**

## **802208ac- NJROTC Drill Team**

**(Grades 10-12)**

This two credit course will provide cadets the opportunity to practice advanced drill for drill team competitions and performances. Cadets are selected to be in the drill class based on performance of duty and conduct. Cadets will perform marching maneuvers, flag folding, color guard, honor guard and physical fitness. Cadets will be divided into the Un-Armed drill team, Armed Drill team, Exhibition drill team, Color Guard drill team and Honor Guard drill team. **This course will be taught for two consecutive periods for the first and second semesters.** The fee for this course is \$25 per semester. **Dress uniforms are provided for student use, but are the property of the US Navy and must be returned at the end of the school year. PT uniforms are provided and become the property of the student.**

***Prerequisite: Completion of a minimum of one year of NJROTC and an instructor recommendation.***

## **HOSPITALITY AND TOURISM**

The Career Technical student organization for students in Culinary Arts classes is **Family, Career and Community Leaders of America (FCCLA)**.

### **500011- Introduction to Hospitality and Tourism**

**(Grades 10-11)**

Introduction to Hospitality and Tourism is a one-semester, one-credit course. This course is the prerequisite for all Culinary Arts courses. In this course, students will learn basic skills needed to work in the restaurant and other foodservice and hospitality industries, with a focus on careers in these fields. This course will include instruction in all areas of workplace readiness. Relevant reading and mathematics concepts will be reinforced. Students will learn commercial sanitation procedures. Students will prepare, evaluate and enjoy different types of food, and learn how these foods are served, presented, packaged, or otherwise provided to clientele. Students will learn about tourism, lodging and hospitality, and ways to enrich the experiences provided to clients by hospitality professionals. **This course will be taught for two consecutive periods during one semester. A total of \$30.00 course fee must be paid at pre-registration for this course in order to sign up. This will cover the cost for a student uniform (jacket and hat) and the fee for the Culinary Arts I class. Non-slip safety shoes must be purchased independently.**

### **500012- Culinary Arts I**

**(Grades 10-12)**

Culinary Arts I is a one-semester, one-credit course. **The prerequisite for this course is Introduction to Hospitality and Tourism.** Culinary Arts I introduces students to basic food production, management, and service activities in both the front- and back-of-the-house. Emphasis is placed on sanitation, safety, and basic food preparation. Skills in mathematics, science and communication are reinforced in this course. FCCLA is an integral part of the curriculum, and provides opportunities to apply workplace readiness and leadership skills, and to serve the community. **This course will be taught for two consecutive periods during one semester. No additional fee is required for this course. Students must have paid the full course fee for Introduction to Hospitality and Tourism.**  
*Prerequisite: Introduction to Hospitality and Tourism*

### **500013- Culinary Arts II**

**(Grades 11-12)**

Culinary Arts II is a two-credit course taken for two semesters. **The prerequisite for this course is Culinary Arts I.** Culinary Arts II introduces students to advanced food production, and reinforces management, professionalism, and service activities in both the front- and back-of- the-house. Emphasis is placed on sanitation, safety, and advanced food preparation. Skills in mathematics, science and communication are reinforced in this course. FCCLA is an integral part of the curriculum, and provides opportunities to apply workplace readiness and leadership skills, and to serve the community. **The fee for this course is \$30.00. This course will be taught for two consecutive periods for the first and second semesters.**



## **500040 - Senior Career Pathway Project**

**(Grades 11-12)**

A one-credit course designed for students who have completed a minimum of two career and technical education courses in a specific pathway 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. Counselor approval and Career Tech teacher request required. *Prerequisite: Counselor approval and teacher recommendation required.*

## STEM COURSES

### ENGINEERING

Engineering is designed to offer students an overview of the engineering profession and fundamental skills utilized in general engineering. Students investigate various engineering disciplines and related career paths. They develop communication and teamwork skills as well as increase their understanding of basic scientific and mathematical principles used in problem solving through the engineering design process. Students will also explore the application of engineering principles in various technological areas including construction, transportation, communication, manufacturing, and bioengineering. Students will also learn about systems involved in the engineering research and design process. Topics include fluid, thermal, mechanical, and electrical systems. The Career Technical student organization for students in all Technical courses is SkillsUSA.

#### **560015 Introduction to Engineering Design - PLTW (10-11)**

A one-credit course that uses a design development process while enriching problem-solving skills. Students create and analyze models using specialized computer software. **Prerequisite: Students must have the STEM pathway on their 4-year plan or have it added to their 4-year plan and a minimum overall 80 average in their Science and math courses, and/or a teacher recommendation.**

#### **560016 Principles of Engineering - PLTW (10-12)**

A one-credit course designed to explore technology systems and manufacturing processes. **Prerequisite: Must have passed Introduction to Engineering Design with a “C” or better. Students must have the STEM pathway on their 4-year plan or have it added to their 4-year plan and a minimum overall 80 average in their Science and math courses, and/or a teacher recommendation.**

#### **560021 Computer Integrated Manufacturing - PLTW (11-12)**

A one-credit course designed to enhance computer modeling skills by applying principles of robotics and automation to the creation of models of three-dimensional designs. **Prerequisite: Must have passed Principles of Engineering with a “C” or better. Students must have the STEM pathway on their 4-year plan or have it added to their 4-year plan and a minimum overall 80 average in their Science and math courses, and/or a teacher recommendation.**

### INFORMATION TECHNOLOGY

This program is for students who are interested in careers that involve designing, implementing, and maintaining computer systems and software for desktop and web-based applications. Courses provide an overview of the knowledge and skills required in computer operating systems, programming languages, and software development. The Career Technical student organization for students in this pathway is SkillsUSA.

## **520014 – Java Programming**

**(Grades 10 - 11)**

**1 credit**

This is a one-credit course designed to provide students with a conceptual understanding of object-oriented programming. Students learn to use Java language's object-oriented programming. Students learn to use Java language's object-oriented technologies to solve business problems.

*Prerequisite: Must have completed Algebra I with an overall 80 average or higher prior to enrolling.*

## **520018 – AP Computer Science Principles**

**(Grades 10 - 11)**

**1 credit**

This is a college-level advanced course following the curriculum established by the College Board Advanced Placement (AP) program for computer science; focuses on the innovative and multidisciplinary aspects of computing as well as the computational thinking practices that help students see how computing is relevant to many areas of their everyday lives; introduces students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. *Prerequisite: Must have completed Algebra II with an overall 70 average or higher or have passed Business Technology Applications (BTA) or its equivalent prior to enrolling.*

## **520007 – AP Computer Science A**

**(Grades 11 - 12)**

**1 credit**

A one credit college-level course following the curriculum established by the College Board Advanced Placement (AP) Program for computer science; emphasizes object-oriented programming methodology with a concentration on problem-solving and algorithm development. *Prerequisite: Must have completed Algebra II with an overall 70 average or higher and AP Computer Science Principles.*

## **520037– Special Topics in Computer Science: Cybersecurity**

**(Grades 12)**

**1 credit**

A one-credit course designed for students who have completed a minimum of two career and technical education computer science courses to select an area of interest; engage in in-depth exploration of the area; employ problem-solving, decision-making, and independent learning skills. This course is designed for students to take a deep dive into relevant computer science topics previously touched on in Exploring Computer Science and AP Computer Science Principles. The course engages students in the creative and security aspects of the field. Specifically, students will explore game design, cybersecurity, and programming concepts through hands-on projects.

*Prerequisite: Java Programming and AP Computer Science Principles*

## **ARTS/AV COMMUNICATION**

Television Production provides students with a basic overview of television production skills and professions. Students participate in classroom and laboratory activities regarding all aspects of television performance, production, and operations. Students are also exposed to a variety of real-world learning opportunities through laboratory experiences in photography and editing. Students perform specialized roles in a regularly scheduled television program to include Television Production—Writing, Producing, and Performing, and Television Production—Studio Operations. The Career Technical student organization for students in all Technical courses is **SkillsUSA**.

### **440004 - Foundation of Arts, Audio-Video Technology and Communication**

**(Grades 10-11)**

**1 credit**

A one-credit course designed to introduce students to the area of Television Production. ***Prerequisite: Students must have the Arts/AV Communication pathway on their 4-year plan and a minimum overall 80 average in their English courses.***

### **440017 - Introduction to Television Production**

**(Grades 10-12)**

**1 credit**

This course provides students with knowledge of television production skills and operations. Students participate in classroom and laboratory experiences in television performance, production, and operations. ***Prerequisite: Students must have a minimum overall 80 average in their English courses.***

### **440020 - Television Production - Photography and Editing**

**(Grades 11-12)**

**1 credit**

This course provides students with a variety of real-world learning opportunities through laboratory experiences in photography and editing for television productions. The prerequisite for this course is Introduction to Television Production. A school-based television studio is required for this course. ***Prerequisite: Introduction to Television Production and must have a minimum overall 80 average in their English courses.***

### **440021 - Advanced Television Production**

**(Grades 11-12)**

A one-credit course that provides students with opportunities to create and market video productions. The prerequisite courses for Advanced Television Production are Introduction to Television Production and a minimum of one additional Television Production course which includes Television Production—Writing, Producing, and Performing; Television Production—Studio Operations; or Television Production—Photography and Editing. A school-based television studio is required for this course. ***Prerequisite: Introduction to Television Production and a minimum of one additional Television Production course.***

## **440055 - CTE Lab in Arts, AV Television, and Communication**

**(Grades 11-12)**

This one-credit 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. *Prerequisite: Foundation of Arts, Audio-Video Technology and Communication and a minimum of two additional Television Production course.*

## **440054 - Senior Career Pathway Project - Arts, A/V Tech, and Communication**

**(Grades 12)**

A one-credit course 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. *Prerequisite: Foundation of Arts, Audio-Video Technology and Communication and a minimum of three additional Television Production course.*

## **HEALTH SCIENCE**

The optional Career Technical student organization for students in Healthcare classes is **HOSA: Future Health Professionals**. The fee is \$20.

## **490007- Foundations of Health Science (Grade 10-11)**

**1 credit**

This course provides students with the content knowledge for all subsequent health science courses and is therefore the REQUIRED first course. Key concepts are 1) academic foundations; 2) communication; 3) employability skills; 4) legal responsibilities; 5) ethics; 6) teamwork; 7) health systems theory and change; 8) safety, and 9) diversity. Skills and leadership potential are also developed through participation in HOSA. **The purchase of scrubs and proof of insurance are required.** *Prerequisite: A student may not sign up for this course unless it is listed on his/her four year plan. Priority will be given to incoming sophomore students for class enrollment.*

## **490023- Therapeutic Services**

**(Grade 10-11)**

**1 credit**

This course is designed to introduce students to two specialized areas of healthcare. Continued application of content standards with skill performance and legal/ethical awareness is provided. Continued participation in HOSA is developed also. **The purchase of scrubs and proof of insurance are required.** *Prerequisite: Foundations of Health Science.*

## **410024- Emergency Services**

**(Grade 11-12)**

**1 credit**

A one-credit course that 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. Continued participation in HOSA is developed also. **The purchase of scrubs and proof of insurance are required. Prerequisite: Foundations of Health Science.**

## **490014- Health Science Internship**

**(Grade 12)**

**2 credits**

This is an accelerated program of study. It is an internship course offered to students who have completed a clinical major and have a health career objective leading to immediate employment or post-secondary study. Clinical assignments comprise at least 60 percent of the health science internship course. Course content, delivered primarily through individualized study, includes career-related skills, healthcare systems, communication, emergency skills, and pharmacology. Internships focus on specific healthcare professions. Apprenticeships will be available to senior students based on availability and interest. **This course will be taught for two consecutive periods for the first and second semesters and requires students to have their own transportation.** The fee for this course is \$16.00 and covers the student's liability insurance. **The purchase of scrubs and proof of health insurance are required. Pre-requisites: Foundations of Health Science and Therapeutic Services or Sports Medicine.**

## **490025- Sports Medicine Intermediate**

**(Grades 11 and 12)**

**1 credit**

This is a one credit course that 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. Students will also engage in out of classroom experiences with Central High School athletics to accumulate approximately 100 hours of observation. Reliable transportation is **REQUIRED** for this course. **Note: There is a \$30 fee for Sports Medicine. Polo/t-shirt, khakis (professional attire) and proof of insurance are required. Prerequisite: Foundations of Health Science.**

## **490026- Sports Medicine Advanced**

**(Grade 12)**

**1 credit**

This is a one credit course with strong emphasis on musculoskeletal injuries as well as the psychological and sociological responses to injuries and illnesses. Students will demonstrate critical thinking skills, patient care skills related to prevention, rehabilitation, and management, and

communicate appropriate outcomes through oral and written communication. Course content will include an understanding of basic pathophysiology, kinesiology, and principles of treatment. 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. Students will engage in out of classroom clinical experiences with Central High School athletics for an approximate total of 100 hours. Reliable transportation is REQUIRED for this course. There is a \$30 fee for Sports Medicine. Polo/t-shirt, khakis (professional attire) and proof of insurance are required. ***Prerequisite: Sports Medicine Intermediate.***

#### **490016- Advanced Health Seminar**

**(Grade 12)**

**1 credit**

This one credit course allows those students who do not wish to participate in an internship to further their knowledge of healthcare issues, including gender/sexuality, disabilities, teamwork, cultural diversity/ethnicity, and diseases. **The purchase of scrubs and proof of insurance are required. Prerequisite: Foundations and Therapeutic Services or Sports Medicine Intermediate**

#### **490045- Medical Assisting (Senior Career Pathway Project - Health Sciences)**

**(Grade 12)**

**1 credit**

This one credit course is for students who want to earn the medical assisting credential. A 2.7 GPA and recommendation is required to be enrolled in this class. **The purchase of scrubs and proof of insurance are required. Prerequisite: Foundations and Therapeutic Services.**

## **TECHNICAL COURSES**

The Career Technical student organization for students in all Technical courses is **SkillsUSA**.

### **AUTOMOTIVE SERVICE TECHNOLOGY**

**Students are required to bring work coveralls and safety toe oil resistant non slip sole shoes/boots. A proof of insurance is needed at the beginning of each course. All Automotive classes are 2 periods long.**

#### **570071- Maintenance and Light Repair A (Auto 1)**

**(Grades 10-12)**

**(1<sup>st</sup> Year, 1<sup>st</sup> Semester)**

Maintenance and Light Repair (MLR) A is a one-credit course that provides students with a foundational knowledge and skills regarding Safety, Engine Repair, Automatic Transmission, and Manual Drive Trains. Strong emphasis is placed on system and component operations. Upon successful completion of the course, students are able to diagnose and repair engine performance related systems. This course incorporates all personal and environmental safety practices associated with clothing, eye protection; hand tools; power equipment; proper ventilation; and the handling, storage, and disposal of chemicals and materials in accordance with local, state, and federal safety and environmental regulations.

#### **570072- Maintenance and Light Repair B (Auto 2)**

**(Grades 10-12)**

**(1<sup>st</sup> Year, 2<sup>nd</sup> Semester)**

Maintenance and Light Repair (MLR) B is a one-credit course that provides students with a foundational knowledge and skills regarding Safety, Suspension & Steering and Brakes. Strong emphasis is placed on system and component operations. Upon successful completion of the course, students are able to diagnose and repair engine performance related systems. This course incorporates all personal and environmental safety practices associated with clothing, eye protection; hand tools; power equipment; proper ventilation; and the handling, storage, and disposal of chemicals and materials in accordance with local, state, and federal safety and environmental regulations.

***Prerequisite: Maintenance and Light Repair A.***

#### **570073- Maintenance and Light Repair C (Auto 3)**

**(Grades 11-12)**

**(2<sup>nd</sup> Year, 1<sup>st</sup> Semester)**

Maintenance and Light Repair (MLR) C is a one-credit course that provides students with a foundational knowledge and skills regarding safety, brakes, and electrical/electronic systems. Upon successful completion of the course, students are able to diagnose and repair engine performance related systems. This course incorporates all personal and environmental safety practices associated with clothing, eye protection; hand tools; power equipment; proper ventilation; and the handling, storage, and disposal of chemicals and materials in accordance with local, state, and federal safety and environmental regulations. ***Prerequisite: Maintenance and Light Repair B with a grade of 60 % or better.***



### **570074- Maintenance and Light Repair D (Auto 4)**

**(Grades 11-12)**

**(2<sup>nd</sup> Year, 2<sup>nd</sup> Semester)**

Maintenance and Light Repair (MLR) D is a one-credit course that provides students with a foundational knowledge and skills regarding safety, engine performance, electrical/electronics, and heating and air conditioning. Upon successful completion of the course, students are able to diagnose and repair engine performance related systems. This course incorporates all personal and environmental safety practices associated with clothing, eye protection; hand tools; power equipment; proper ventilation; and the handling, storage, and disposal of chemicals and materials in accordance with local, state, and federal safety and environmental regulations. *Prerequisite: Maintenance and Light Repair C*

### **570075- Automotive Service Technology A (Auto 5)**

**(Grades 12)**

**(3<sup>rd</sup> Year, 1<sup>st</sup> Semester)**

Automotive Service Technology (AST) A is a one-credit course that provides students with service knowledge and skills regarding safety, engine repair, automatic transmission, and manual drive trains. Upon successful completion of the course, students are able to diagnose and repair engine performance related systems. This course incorporates all personal and environmental safety practices associated with clothing, eye protection; hand tools; power equipment; proper ventilation; and the handling, storage, and disposal of chemicals and materials in accordance with local, state, and federal safety and environmental regulations. *Prerequisite: Maintenance and Light Repair D with a grade of 60 % or better.*

### **570076- Automotive Service Technology B (Auto 6)**

**(Grades 12)**

**(3<sup>rd</sup> Year, 2<sup>nd</sup> Semester)**

Automotive Service Technology (AST) B is a one-credit course that provides students with service knowledge and skills regarding safety, suspension & steering and brakes. Upon successful completion of the course, students are able to diagnose and repair engine performance related systems. This course incorporates all personal and environmental safety practices associated with clothing, eye protection; hand tools; power equipment; proper ventilation; and the handling, storage, and disposal of chemicals and materials in accordance with local, state, and federal safety and environmental regulations.

*Prerequisite: Automotive Service Technology A.*

**All of the courses in the Architecture and Construction Cluster require you to sign up for the 1<sup>st</sup> and 2<sup>nd</sup> semester course. Credit will be issued each semester for each course that is completed successfully. Proof of insurance or purchase of school day insurance is required.**

## CARPENTRY

### **430004- Architecture, Construction, and Manufacturing for Carpentry**

**(Grades 10-12)**

**(1st Year, 1st Semester)**

This is a one credit course that introduces students to core knowledge and skills in the areas of design, preconstruction, construction, maintenance, operations, and installation and repair which are foundational to courses related to careers in the architecture, construction, and manufacturing industries. **Proof of insurance is required.**

### **432301- NCCER Carpentry 1**

**(Grades 10-12)**

**(1st Year, 2nd Semester)**

This is the first of 3 required one-credit courses in the Carpentry pathway. It is designed to complete all core requirements for NCCER Core credentialing and to provide students with fundamental knowledge and skills emphasizing use of hand and power tools, building materials, fasteners, adhesives, and flooring systems needed for NCCER Carpentry Level I Credentialing. **Proof of insurance is required.**

### **432302- NCCER Carpentry 2**

**(Grades 10-12)**

**(2<sup>nd</sup> Year, 1<sup>st</sup> Semester)**

A one-credit course designed to provide students with advanced knowledge and skills emphasizing floor wall, ceiling, and basic construction layout needed for NCCER Carpentry Level I Credentialing. **Proof of insurance is required. Prerequisite: Completion of Architecture, Construction, and Manufacturing and Carpentry 1 with a grade of 60% or better.**

### **432303- NCCER Carpentry 3**

**(Grades 10-12)**

**(2<sup>nd</sup> Year, 2<sup>nd</sup> Semester)**

A one-credit course designed to provide students with advanced knowledge, skills and practice emphasizing wall, ceiling, and roof framing, windows, entrance doors, and stair layout needed for NCCER Carpentry Level I Credentialing. **Proof of insurance is required. Prerequisite: Carpentry 2.**

### **430129 - Senior Career Pathway Project**

**(Grade 12)**

A one-credit course designed for students who have completed a minimum of two career and technical education courses in a specific pathway 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. Counselor approval and Career Tech teacher request required. **Prerequisite: Counselor approval and teacher recommendation required.**

## MASONRY CLASSES

### **430004- Architecture, Construction, and Manufacturing for Masonry**

**(Grades 10-12)**

**(1st Year, 1st Semester)**

This is a one credit course that introduces students to core knowledge and skills in the areas of design, preconstruction, construction, maintenance, operations, and installation and repair which are foundational to courses related to careers in the architecture, construction, and manufacturing industries. **Proof of insurance is required.**

### **432701- NCCER Masonry 1**

**(Grades 10-12)**

**(1st Year, 2nd Semester)**

This is the first of 3 required one-credit courses in the Masonry pathway. It is designed to complete all core requirements for NCCER Core credentialing and to provide students with fundamental knowledge and skills emphasizing safety, tools, measuring, blueprint reading and layout, and basic block and brick construction techniques leading to NCCER Masonry Level I Credentialing. **Proof of insurance is required.**

### **432702- NCCER Masonry 2**

**(Grades 11-12)**

**(2nd Year, 1st semester)**

This is the second of 3 required one-credit courses in the Masonry pathway. It is designed to provide students with practice and skills development emphasizing safety, applications and intermediate block and brick construction techniques leading to NCCER Masonry Level I Credentialing. **Proof of insurance is required. Prerequisites: Architecture, Construction, Manufacturing, and Masonry I with a grade of 60 % or better.**

### **432703- NCCER Masonry 3**

**(Grades 10-12)**

**(2nd Year, 2nd Semester)**

This is the third of 3 required one-credit courses in the Masonry pathway. It is designed to provide students with practice and skills development emphasizing safety, applications and advanced block and brick construction techniques leading to NCCER Masonry Level I Credentialing. **Proof of insurance is required. Prerequisite: Masonry 2.**

### **430129 - Senior Career Pathway Project**

**(Grade 12)**

A one-credit course designed for students who have completed a minimum of two career and technical education courses in a specific pathway 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. Counselor approval and Career Tech teacher request required. **Prerequisite: Counselor approval and teacher recommendation required.**

## WELDING

### **430004- Architecture, Construction, and Manufacturing for Welding**

**(Grades 10-12)**

**(1st Year, 1st Semester)**

This is a one credit course that introduces students to core knowledge and skills in the areas of design, preconstruction, construction, maintenance, operations, and installation and repair which are foundational to courses related to careers in the architecture, construction, and manufacturing industries. **Proof of insurance is required.**

### **432901- NCCER Welding 1**

**(Grades 10-12)**

**(1st Year, 2nd Semester)**

This is the first of 4 required one-credit courses in the Welding Technologies Pathway. It is designed to complete all core requirements for NCCER Core credentialing and to provide students with fundamental knowledge and skills emphasizing use of hand tools, power tools, welding theory and practice for use in the manufacturing and construction industry. This entry-level course is required for NCCER Welding Level I. **Proof of insurance is required.**

### **432902- NCCER Welding 2**

**(Grades 10-12)**

**(2nd Year, 1st Semester)**

This is the second of 4 required one-credit courses in the welding Technologies pathway. Topics include: basic shielded metal arc welding, blueprint reading, weld symbols and joint identification and print reading. Emphasis is placed on fundamental knowledge guided practice and NCCER Welding Level I requirements. **Proof of insurance is required. Prerequisites: Architecture, Construction, Manufacturing, and Welding I with a grade of 60 % or better.**

### **432903- NCCER Welding 3**

**(Grades 10-12)**

**(2nd Year, 2nd Semester)**

This is the third of 4 required one-credit courses in the Welding Technologies pathway. It is designed to provide students with theory, practice, and skills development. Emphasis is placed on the application and operation of shielded metal arc welding (SMAW) equipment in the vertical, 3-F and overhead, 4-F positions leading to NCCER Welding Level I Credentialing. **Proof of insurance is required. Prerequisite: Welding 2.**

**Proof of insurance is required. Prerequisites: Gas Metal Arc Welding (GMAW).**

### **432904 – NCCER Welding 4**

**(Grade 12)**

**(3rd Year, 1st Semester)**

This is the fourth of 4 required one-credit courses in the Welding Technologies pathway. It is designed to provide students with additional practice and skills development. Emphasis is placed on the

application and operation of shielded metal arc welding (SMAW) equipment and mastery in the vertical, 3-F and overhead, 4-F positions leading to NCCER Welding Level I Credentialing and AWS Plate Certification. **Proof of insurance is required. Prerequisite: Welding 3.**

### **430129 - Senior Career Pathway Project**

**(Grade 12)**

**(3<sup>rd</sup> Year, 2<sup>nd</sup> Semester)**

A one-credit course designed for students who have completed a minimum of two career and technical education courses in a specific pathway 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. Counselor approval and Career Tech teacher request required. **Prerequisite: Counselor approval and teacher recommendation required.**

## **HEATING, VENTILATION, AIR CONDITIONING, & REFRIGERATION (HVAC/R)**

**\*\*The five courses below comprise the Central High School dual enrollment HVAC program. The courses must be taken in order, with collegiate and high school credit being awarded at the end of each nine weeks. When a student registers for the first course, they are registering for all four courses and must remain in the program all year (unless a prerequisite is not met).**

### **(Course #1)**

#### **938806 - Dual Enrollment WKO 110 (NCCER Core)**

**(Grade 10-12)**

**(1<sup>st</sup> 9 weeks)**

**1 high school credit; 3 collegiate credit hours**

This course is designed to provide students with knowledge and skills related to multi-craft technicians in a variety of fields. Information in this course is based on the National Center for Construction Education and Research (NCCER) core curriculum and prepares students to test for the NCCER credential.

**Requirements for Enrollment: minimum overall GPA of 2.5 or higher; student must register as a CVCC student through CHS; achieve the minimum required score on the ACCUPLACER test established by CVCC; attendance at a parent and student parent meeting (time and date TBD); consistent classroom behavior associated with academic success.**

### **(Course #2)**

#### **920201 - Dual Enrollment ACR111 (Principles of Refrigeration)**

**(Grade 10-12)**

**(2<sup>nd</sup> 9 weeks)**

**1 high school credit; 3 collegiate credit hours**

This course emphasizes the fundamental principles for air conditioning and refrigeration. Instruction is provided in the theory and principles of refrigeration and heat transfer, HVAC/R system components, common, and specialty tools for HVAC/R, and application of the concepts of basic compression refrigeration. Upon completion, students should identify system components and understand their functions, identify and use common and specialty HVAC/R tools, and maintain components of a basic compression refrigeration system.

**Requirements for Enrollment: minimum overall GPA of 2.5 or higher; student must register as a CVCC student through CHS; achieve the minimum required score on the ACCUPLACER test established by CVCC; attendance at a parent and student parent meeting (time and date TBD); consistent classroom behavior associated with academic success; proof of insurance.**

**(Course #3)**

**920206 - Dual Enrollment ACR 121 (Principles of Electricity for HVACR)**

**(Grade 10-12)**

**(3<sup>rd</sup> 9 weeks) 1 high school credit; 3 collegiate credit hours**

This course is designed to provide the student with the basic knowledge of electrical theory and circuitry as it pertains to air conditioning and refrigeration. This course emphasizes safety, definitions, symbols, laws, circuits, and electrical test instruments. Upon completion students should understand and be able to apply the basic principles of HVACR circuits and circuit components. This is a CORE course.

**Requirements for Enrollment: minimum overall GPA of 2.5 or higher; student must register as a CVCC student through CHS; achieve the minimum required score on the ACCUPLACER test established by CVCC; attendance at a parent and student parent meeting (time and date TBD); consistent classroom behavior associated with academic success; proof of insurance.**

**(Course #4)**

**920205 - Dual Enrollment ACR120 (Fundamentals of Electric Heat Systems)**

**(Grade 10-12)**

**(4<sup>th</sup> 9 weeks) 1 high school credit; 3 collegiate credit hours**

This course covers the fundamentals of electric furnace systems. Emphasis is placed on components, general service procedures, and basic installation. Upon completion, students should be able to install and service electric furnaces, heat pumps, and solar and hydronics systems.

**Requirements for Enrollment: minimum overall GPA of 2.5 or higher; student must register as a CVCC student through CHS; achieve the minimum required score on the ACCUPLACER test established by CVCC; attendance at a parent and student parent meeting (time and date TBD); consistent classroom behavior associated with academic success; proof of insurance.**

**Students currently enrolled in HVAC/R Courses 1 – 4 will be enrolled in Year 2 HVAC/R courses.**

## **COSMETOLOGY**

**Students are required to wear closed toe shoes while in the Cosmetology lab. In order for a student to obtain the hours/courses necessary to qualify to take the license exam for cosmetology (CRI) the student must have 11 specific courses on his/her transcript.**

### **510060- Introduction to Cosmetology**

**(Grades 10-11)**

**(First Year, 1<sup>st</sup> Semester)**

Introduction to Cosmetology provides students with a study of concepts related to the Cosmetology profession. Specific topics include Cosmetology History and Opportunities, Professional Image, Infection Control, Basic Fundamentals, and Principles of Hair Design. Students also gain initial practical experience in sanitation, shampooing, hair shaping, and hairstyling. Upon successful completion of this course, students are able to practice safety and sanitary precautions as they perform basic procedures. Introduction to Cosmetology is the prerequisite to Chemical Services, Hair Coloring, Introduction to Spa Techniques, Advanced Spa Technique Applications, Salon Practices and Management, and State Board Practicum. Students participate in SkillsUSA as an integral part of this instructional program. **This course will be taught for two consecutive periods during first semester.**

**Students must pay the \$70.00 fee at registration. This fee covers the cost of the mannequin and consumable supplies students will use in the course.**

### **510062- Chemical Services**

**(Grades 10-11)**

**(First Year, 2<sup>nd</sup> Semester)**

Chemical Service is a one-credit course that focuses on the theory of chemical services related to chemical hair texturing. Specific topics include basics of chemistry and electricity, Properties of the Hair and Scalp, and Chemical Texture Services. Students also gain initial practical experience in performing various chemical texturing activities. Emphasis is placed on safety, chemical use and handling, hair and scalp analysis, and client consultation. Upon successful completion of this course, students are able to practice safety and sanitary precautions as they perform these chemical services. Students participate in SkillsUSA as an integral part of this instructional program. **This course will be taught for two consecutive periods during second semester.** *Prerequisites: Introduction to Cosmetology.*

### **510063- Introduction to Spa Techniques**

**(Grades 11-12)**

**(2nd Year-1st semester)**

Introduction to Spa Techniques is a one credit course that focuses on the structure and function of various systems of the body, massage techniques, skin care, and hair removal. Upon successful completion of this course, students are able to assemble sanitized materials, follow procedures for product application, recognize skin disorders, and demonstrate facial massage movements and hair removal. Safety and sanitary precautions are emphasized in the performance of these services. Students participate in SkillsUSA as an integral part of this instructional program. **This course will be taught for two consecutive periods during first semester.** **Students must pay the \$70.00 fee at**



registration. This fee covers the cost of the mannequin and consumable supplies students will use in the course. Second year students will also be required to purchase a uniform at a cost of approximately \$35.00. *Prerequisites: Chemical Services.*

## **510061- Hair Coloring and Lightening**

**(Grades 11-12)**

**(2<sup>nd</sup> Year, 2<sup>nd</sup> Semester)**

Hair Coloring is a one-credit course that provides students with study and experience in hair coloring and lightening. Emphasis is placed on color application, laws, levels and classifications of color, and problem solving. Upon successful completion of this course, students are able to identify all phases of hair coloring and effects upon the hair and perform procedures for hair coloring and lightening. Problem-solving and critical thinking skills are essentials, and many opportunities are provided for growth in students' level of competence. Students participate in SkillsUSA as an integral part of this instructional program. **This course will be taught for two consecutive periods during second semester.** *Prerequisites: Introduction to Spa Techniques.*

## **510065- Salon Practices & Management**

**(Grade 12)**

**(3<sup>rd</sup> Year, 1<sup>st</sup> Semester)**

Salon Practices and Management is a one-credit course that helps students develop entry-level management skills for the Cosmetology industry. Students practice all phases of Cosmetology in a salon setting. Upon successful completion of this course, students are able to demonstrate professional work ethics and communication skills, job seeking and management skills and exhibit knowledge of the technology used in salons. Students participate in SkillsUSA as an integral part of this instructional program. **This course will be taught for two consecutive periods during first semester.** **Students must pay the \$90.00 fee at registration. This fee covers the cost of the mannequin and consumable supplies students will use in the course and pay for the state board practicum.** *Prerequisites: Hair Coloring and Lightening.*

## **510066- Introduction to Nail Care and Application**

A one-credit course designed to focus on all aspects of the nail care industry. Emphasis is placed on nail care history and opportunities, nail and skin services, sanitation and bacteriology, and salon conduct. This course is a prerequisite for Nail Art and Applications and State Board Practicum. **This course will be DURING SUMMER SCHOOL. Students must pay the \$75.00 fee at registration. This fee covers the cost of the supplies students will use in the course and pay for the Nail Kit and Nail Trainer Hand for practice .**

## **510067- Nail Art and Application**

A one-credit course designed to provide students with a study and experiences in advanced nail techniques. Students apply procedures and techniques for nail sculpturing and nail art. This course is a prerequisite for State Board Practicum. **This course will be taught DURING SUMMER SCHOOL. Students must pay the \$75.00 fee at registration.** *Prerequisites: Introduction to Nail Care and*

***Application.*** This fee covers the cost of the supplies students will use in the course and pay for Acrylic Nail Kit supplies.

### **510077- CTE Lab in Cosmetology**

**(Grade 12)**

**(3rd Year, 1st Semester)**

CTE Lab in Cosmetology is a one-credit course with an extended laboratory experience to address the advancement and specialization of careers within Cosmetology 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.

Students participate in SkillsUSA as an integral part of this instructional program. **This course will be taught for two consecutive periods during first semester.** Students must pay the \$90.00 fee at registration. This fee covers the cost of the mannequin and consumable supplies students will use in the course and pay for the state board practicum. *Prerequisites: Salon Practices and Management.*

### **510064- Advanced Spa Techniques Applications**

**(Grade 12)**

**(3rd Year -2nd semester)**

Advanced Spa Techniques Applications is a one credit course that provides students with study and experience in advanced hair removal, cosmetic applications, skin care and massage techniques. Upon successful completion of this course, students are able to practice safety and sanitary precautions as they apply to the performance of advanced techniques and applications. Students participate in SkillsUSA as an integral part of this instructional program. **This course will be taught for two consecutive periods during second semester.** *Prerequisites: Salon Practices & Management or CTE Lab in Cosmetology.*

### **510068- State Board Practicum**

**(Grade 12)**

**(3<sup>RD</sup> Year - 1<sup>st</sup> or 2<sup>nd</sup> semester)**

State Board Practicum is a one credit culminating course that provides students with a comprehensive study of State Board procedures and practical applications in Cosmetology and nail care. The course consists of Pathway A-Cosmetology (content standard 1-17) and Pathway B Nail Care Services (content standards 1-11 and 18-20). Upon successful completion of this course students are able to demonstrate practical skills necessary for meeting state and licensure requirements and for successful employment. Students participate in SkillsUSA as an integral part of this instructional program. **This course will be taught for two consecutive periods during one semester.** *Prerequisites: Salon Practices & Management or CTE Lab in Cosmetology.*

### **510070- Senior Career Pathway Project - Human Services, Cosmetology**

**(Grade 12)**

**(3<sup>RD</sup> Year - 1<sup>st</sup> or 2<sup>nd</sup> semester)**

A one-credit culminating course 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 will be taught for two consecutive periods during one semester.** *Prerequisites: Salon Practices & Management or CTE Lab in Cosmetology.*

## **TECHNICAL ENDORSEMENT/ ARTICULATION INFORMATION**

The Technical Endorsement is intended primarily to raise the academic expectations and performance of all students, but especially for those students who might previously not have considered continuing their education after high school. Although the Technical Endorsement runs parallel to the Advanced Endorsement, it has a broader scope in that its goal is to prepare students for any of three specific options after high school:

- Entrance into a two-year community college or technical college;
- Entrance into a four-year postsecondary school after completion of two years at a community or technical college;
- Entrance directly into the workforce with advanced technical skills.

Besides enhanced skills and greater academic achievement, perhaps the greatest benefit to be derived from the Technical Endorsement is advanced placement at the postsecondary level. Articulation agreements with Chattahoochee Valley Community College, Columbus Technical Institute, Southern Union State Community College, Sparks State Technical College and Alabama Aviation and Technical College will give students college credit for skills mastered in specific training areas while at CHS.

**Articulation is not automatic.** Criteria were established to add uniformity and to maintain the integrity of the articulation process. In order to receive articulated college credit, a student must meet the following criteria:

- Earn a Technical Endorsement, which indicates having completed a specific course of study,
- Receive a recommendation from technical skills area teacher at CHS,
- Present a Request for Articulation Credit form signed by both the school counselor and the technical skills area teacher, attesting to the student's proficiency,
- Provide a copy of the skills area Document of Evidence,
- Have maintained an 80 average or above in the technical skills area course(s),
- Be admitted unconditionally as a student at the post-secondary institution,
- Meet validation requirements, as necessary, for specific courses,
- Complete one term's work at the postsecondary institution before having the articulated credit (but not letter grade) entered on the transcript, and
- Use the articulated credit within a specified period of time (e.g., must start postsecondary courses within two years after high school graduation and complete the postsecondary program within five years or other time frame set in the articulation agreement)

## ACCESS COURSE OFFERINGS



### ACCESS Web Based Instruction (WBI) Courses Available Fall 2019-Spring 2020

ENGLISH	MATHEMATICS	ELECTIVES
English 9 (1) CR, CA	Algebra I (1) CR, CA	Accounting (1)
English 10 (1) CR, CA	Algebra IA (1) CR	Business Technology Applications (1)
English 11 (1) CR, CA	Algebra IB (1) CR	Career Preparedness A & B (½ each)
English 12 (1) CR, CA	Geometry (1) CR, CA	Career Preparedness (1)
AP English Language/Composition (1) <sup>SM</sup>	Geometry A (1) CR	Computer Programming I (1)
AP English Literature/Composition (1) <sup>SM</sup>	Geometry B (1) CR	Content Textual Reading (½)
	Algebraic Connections (1) CR, CA	Creative Writing (½ and 1)
<b>SOCIAL STUDIES</b>	Algebra II (1) CR, CA	Forestry (1)
World History: 1500 to Present (9th) (1) CR, CA	Algebra II w/Trig (1) CR, CA	Global Studies (1)
United States History I (10th) (1) CR, CA	Algebra with Finance (1) CR, CA	Journalism (½)
United States History II (11th) (1) CR, CA	Precalculus (1) CA	Marine Science (1)
Economics (½) CR, CA	AP Calculus AB (1) * <sup>SM</sup>	Multicultural Workplaces: Korean (½)
United States Government (½) CR, CA	AP Statistics (1) *	Nutrition and Wellness (½)
AP United States History (1) <sup>SM</sup>		Personal Finance (½)
AP Macroeconomics (½) (½)	<b>FOREIGN LANGUAGES</b>	Psychology (½)
AP U.S. Government and Politics (½) <sup>SM</sup>	French I (1)	Sociology (½)
	French II (1)	Web Design I (1) *
<b>SCIENCE</b>	French III (1)	Web Design II (1) *
Biology (1) CR, CA	German I (1)	Workforce Essentials (1)
Physical Science (1) CR, CA	German II (1)	AP Psychology (1) <sup>SM</sup>
Chemistry (1) CR, CA	German III (1)	AP Computer Science A (1) * <sup>SM</sup>
Physics (1) CA	Latin I (1)	AP Art History (1)
Environmental Science (1) CR, CA	Latin II (1)	<b>ARTS</b>
Forensic and Criminal Investigation (1)	Latin III (1)	Dance, Elements of Art Literacy (½)
Human Anatomy and Physiology (1) CR, CA	Spanish I (1)	Music, Elements of Art Literacy (½)
AP Biology (1) <sup>SM</sup>	Spanish II (1)	Theatre, Elements of Art Literacy (½)
	Spanish III (1)	Visual Arts, Elements of Art Literacy (½)
<b>HEALTH</b>	Spanish IV (1)	Introduction to Theatre I (1)
Health Education (½)	Mandarin Chinese I (1)	<b>PHYSICAL EDUCATION</b>
	Mandarin Chinese II (1)	L.I.F.E. (18-week course for Block) (1)
		L.I.F.E. (36-week course for Traditional) (1)

CR – Available in Credit Recovery Model

CA – Available in Credit Advancement Model

The number in the ( ) is recommended credit

\* – Because this course requires specific software downloads and/or Java, it is not suitable for Chromebooks and other mobile devices.

SM – This course requires supplementary materials (school's responsibility).

### Videoconferencing Instruction (VCI) Courses

ACCESS Virtual Learning offers a variety of courses that are taught using the VCI method of delivery. Go to [accessdl.state.al.us](http://accessdl.state.al.us) for more information. 4/16/2019

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