

Autauga County Board of Education



Program of Studies and Course Selection Guide 2022-2023

Mr. Timothy E. Tidmore, Superintendent

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This school district complies with Title IX of the Education Act of 1972.

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1.0 Introduction

1.1 Administration

Timothy E. Tidmore, Superintendent
Tisha Addison, Student Services/Secondary Schools
Cathy Loftin, Curriculum & Instruction/Elementary Schools
Autaugaville School
Billingsley School
Marbury High School
Prattville High School

1.2 Equal Opportunity

It is the policy of the Board that no student shall exclude from participation in, denied the benefits of, or subjected to discrimination in any program or activity in the District on the basis of sex, age, marital status, race, religion, belief, national origin, ethnic group, disability, immigrant status, non-English speaking ability, homeless status, or migrant status.

1.3 Mission

The mission of Autauga County Schools is to provide excellent educational experiences for all students to be successful in life.

1.4 Scheduling of Classes

GUIDELINES FOR REGISTRATION AND SCHEDULE CHANGES

1. Students will receive registration forms in large groups with their Homeroom classes.
2. Students will receive instructions and information from Counselors during these registration sessions. These sessions are separate from and in addition to Academic Sessions.
3. Students will be given completed forms to take home, review with parents / guardians, and have the form signed by parents/guardians.
4. Students will be strongly advised to attend the Curriculum Night offered by each school to help students choose the appropriate classes for the next school year.
5. Students will be given a copy of his/her schedule requests in the spring, which they are to take home for parents/guardians to review and sign, and return by the deadline.
6. Students/parents/guardians will not be allowed to make changes in schedule requests after the signed copy is returned UNLESS there is an error in his/her completed

schedule.

7. Counselors will keep all copies of the registrations forms and signed request forms to verify/document course selections and schedule change requests.
8. Students/Parents /Guardians should consider VERY carefully student course selections INCLUDING ELECTIVES AND AP COURSES. Changes will not be made after all forms are returned, signed by the deadline, even if the student has fulfilled his/her minimum subject/course requirements.
9. Students who do not fill out registration forms by deadlines will have courses selected by their Counselor and will forfeit the opportunity to make any changes.

REASONS FOR GUIDELINES

1. The Master Schedule is built around student selections on their registration forms.
2. Teachers are hired based on the numbers of students registering for courses as well as the number of each course to be offered and taught during the year.
3. Teacher schedules/courses to be taught are determined based on the numbers for which teachers do plan for over the summer.
4. Students need to understand the importance of the decisions they make when selecting courses and that they have to live with the decisions they do make.

2.0 High School Graduation Requirements

Students may earn either a Standard Diploma or Honors Diploma by completing the minimum graduation requirements according to criteria authorized by the State Board of Education and additional requirements authorized by the Autauga County Board of Education.

Credits Required to be Promoted	Credits Required to Graduate
5 Sophomore (At least 3 of the 5 credits must be earned in core content areas.)	24
12 Junior (At least 7 of the 12 credits must be earned in core content areas.)	
17 Senior	

2.1 Diploma Options

Alabama High School STANDARD Diploma

STANDARD DIPLOMA Requirements	
English- 4 Credits	Career Prep- 1 Credit
History- 4 Credits	Beginning Kinesiology- 1 Credit
Science- 4 Credits	World (Foreign) Language- Not Required
Math- 4 Credits* Geometry with Data Analysis/Algebra I with Probability/Algebra II with Statistics/ 1 Additional course *Students must earn one math credit during each year of high school.	Fine Arts or Career Tech or World (Foreign) Language- 3 Credits
Health- ½ (0.5) Credit	Electives- 2.5 Credits
Total Credits for Graduation 24	

A minimum of **4** Credits must be earned in each of the following content Areas: Math, Science, English and Social Studies.

Math

Minimum of 4*

App. of Finite Math
Geometry-w/ D.A.
(Gen or Hon.)
Alg.I w Probability
(Gen or Hon.)
Alg.II with Statistics
Additional Math Course (ALSDE approved course)

Science

Minimum of 4

Biology*
Physical Science*
*REQUIRED
Two (2) Additional
Core Sciences

English

Minimum of 4

English 9
English 10
English 11
English 12

Social Studies

Minimum of 4

World History
U.S. History 10
U.S. History 11
U.S. Gov't & Economics

***Students must earn one math credit during each year of high school.**

AP Computer Science may count as a Math credit, a Science credit, or a Career Technical credit.

Alabama High School HONORS Diploma
(Highest Endorsement for Autauga County)

HONORS DIPLOMA Requirements	
English- 4 Credits w/ Honors or AP	Career Prep- 1 Credit
History- 4 Credits w/ Honors or AP	Beginning Kinesiology-1 Credit
Science- 4 Credits w/ Honors or AP	World (Foreign) Language- 2 Credits of same Language
Math- 4 Credits w/ Honors or AP Geometry with Data Analysis/Algebra I with Probability/Algebra II with Statistics/ 2 Additional courses *Students must earn one math credit during each year of high school.	Fine Arts or Career Tech or 3 rd World (Foreign) Language- 1 Credit
Health- ½ (0.5) Credit	Electives- 2.5 Credits
Total Credits for Graduation 24	

A minimum of **4** Credits must be earned in each of the following content Areas: Math, Science, English and Social Studies.

Math

Minimum of 4*

Geometry w/ D.A. (Hon)
Algebra II w/ Stats
PreCalculus
App. of Finite Math
AP Calculus
AP Statistics
AP Computer Science+
Dual Enrollment:
 Calculus I
 Calculus II

Science

Minimum of 4

Biology (Hon/AP)
Physical Sc. (Hon)
Chemistry (Gen/Hon/AP)
Physics,
Anat. & Physiology
(Gen./Hon.)

Social Studies

Minimum of 4

World His.9 (Hon)
U.S. Hist. 10 (Hon)
U.S. Hist. 11 (Hon or AP)
U.S. Gov't & Econ-
(Hon or AP)

English

Minimum of 4

Eng. 9 (Hon)
Eng. 10 (Hon)
Eng. 10 (Hon)
Eng. 12 (Hon)
AP Eng. 11
AP Eng. 12
Dual Enrollment:
 Eng.101/Eng. 102

***Students must earn one math credit during each year of high school.**

+AP Computer Science may count as a Math credit, a Science credit, or a Career Technical credit.

2.2 Essentials

REQUIRED COURSES	DIPLOMA REQUIREMENTS
Essentials English	4 Credits
Essentials Science	4 Credits
Essentials Math Students are required to take the following courses or their equivalents: Geometry with Data Analysis Essentials; Algebra I with Probability Essentials; Algebra II with Statistics Essentials; Mathematical Modeling Essentials	4 Credits
Essentials History/Gov't & Economics	4 Credits
Health Education	½ (0.5) Credit
Physical Education: Beginning Kinesiology	1 Credit
Career Preparedness	1 Credit
Career/Technical Education/Coop Ed	3 Credit
Workforce Essentials	1 Credit
Electives	1.5 Credits
Total Credits for Graduations 24	

The Essentials option is for students on an Individualized Education Program. Students who take four (4) or more Essential courses must complete a work component.

2.3 Alternate Achievement Pathway

This pathway is available to students with disabilities defined by IDEA. This diploma will be awarded to any student who completes the courses on the AAS Pathway, who is working toward extended standards and who takes the Alabama Alternate Assessment.

Alternate Achievement Standards (AAS)

- Available to students with disabilities as defined under IDEA
- Certifies completion of an Individualized Education Program (IEP)
- Students with disabilities who have not earned a regular high school diploma are entitled to services until age 21.
- The AAS core content area courses are based on the Alabama Extended Standards for ELA, Math, Science, and Social Studies.

2.4 Notes

Students with disabilities entering the 9th grade and subsequent school years have options concerning a program of study. These options are:

General Education Pathway

Essential Pathway

Alternate Achievement Pathway

Alabama High School Diploma Graduation Requirements

Areas of Study	Requirements	Credits
English Language Arts	English 9 English 10 English 11 English 12	4.0
Mathematics	Geometry with Data Analysis Algebra I with Probability Algebra II with Statistics 1 Additional Math Courses *Students must earn one math credit during each year of high school.	4.0
Science	Biology A physical science: Physical Science, Chemistry, or Physics 2 Additional Science Courses	4.0
Social Studies	World History 9 U.S. History 10 U.S. History 11 Government/Economics	4.0
Physical Education	Beginning Kinesiology (Physical Fitness)	1.0
Health Education	Health Education	0.5
Career Preparedness	Career Preparedness Course	1.0
CTE/World (Foreign) Language/ Arts (Standard Program)	Students may choose any combination of Career Technical Education (i.e. FACS & Fashion), Arts Education, and/or World (Foreign) Language courses.	3.0
CTE/Arts and 2 World (Foreign) Languages-same lang. (Honors Program)		
Electives	Any other State- or Locally-approved elective courses	2.5
Total Credits Required for Graduation		24

Additional Grade Weighting

Honors, Advanced and AP courses all carry additional grade weights that affect a student's cumulative grade point average. Grade weights are listed below:

- Honors +0.5 quality point
- Advanced Placement +1.0 quality point
- Dual Enrollment +1.0 quality point

Example: B average in an AP course affects a student's grade point average the same as an A in a regular course.

3.0 COURSE SELECTION

3.1 English

01001G1000 English Grade 9

Reading literature, reading informational text, writing, speaking and listening, and language

Credit= 1 credit Time=36 weeks

NOTE: FULFILLS ENGLISH CREDIT REQUIRED FOR GRADUATION.

01001H1000 Honors English Grade 9 (+0.5 grade weight)

Advanced work in reading literature, reading informational text, writing, speaking and listening, and language

Credit=1 credit Time=36 weeks

NOTE: FULFILLS ENGLISH CREDIT REQUIRED FOR GRADUATION.

01002G1000 English Grade 10

Reading literature, reading informational text, writing, speaking and listening, and language

Credit=1 credit Time=36 weeks

NOTE: FULFILLS ENGLISH CREDIT REQUIRED FOR GRADUATION.

01002H1000 Honors English Grade 10 (+0.5 grade weight)

Advanced work in reading literature, reading informational text, writing, speaking and listening, and language

Credit=1 credit Time=36 weeks

NOTE: FULFILLS ENGLISH CREDIT REQUIRED FOR GRADUATION.

01003G1000 English Grade 11

Reading literature, reading informational text, writing, speaking and listening, and language

Credit=1 credit Time=36 weeks

NOTE: FULFILLS ENGLISH CREDIT REQUIRED FOR GRADUATION.

01003H1000 Honors English Grade 11 (+0.5 grade weight)

Advanced work in reading literature, reading informational text, writing, speaking and listening, and language

Credit=1 credit Time=36 weeks

NOTE: FULFILLS ENGLISH CREDIT REQUIRED FOR GRADUATION.

01005H1000 AP English, Language & Composition Grades 11 & 12 (+1.0 grade weight)

College-level advanced course following the curriculum established by the College Board Advanced Placement (AP) Program for English; engages students in becoming skilled writers who compose for a variety of purposes; guides students in becoming skilled readers of prose written in a variety of rhetorical contexts; extensive writing of compositions

Credit=1 credit Time=36 weeks

NOTE: FULFILLS ENGLISH CREDIT REQUIRED FOR GRADUATION.

01004G1000 English Grade 12

Reading literature, reading informational text, writing, speaking and listening, and language

Credit=1 credit Time=36 weeks

NOTE: FULFILLS ENGLISH CREDIT REQUIRED FOR GRADUATION.

01004H1000 Honors English Grade 12 (+0.5 grade weight)

Advanced work in reading literature, reading informational text, writing, speaking and listening, and language

Credit=1 credit Time=36 weeks

NOTE: FULFILLS ENGLISH CREDIT REQUIRED FOR GRADUATION.

01006H1000 AP English, Literature & Composition Grade 12 (+1.0 grade weight)

College-level advanced course following the curriculum established by the College Board Advanced Placement (AP) Program for English; engages students in the careful reading and critical analysis of imaginative literature from several genres and periods from the sixteenth to the twenty-first century; extensive writing of compositions.

Credit=1 credit Time=36 weeks

NOTE: FULFILLS ENGLISH CREDIT REQUIRED FOR GRADUATION.

01999C1001 English Composition 101 College Dual Enrollment Grade 11&12 (+1.0 grade weight)

Dual Enrollment courses allow high school students the opportunity to earn high school and college credit simultaneously. Because these are college courses, the approved University bears the sole responsibility for choosing the appropriate academic content. Students must have a high school GPA of 3.0 and a composite score of 20 on the ACT or 950 on the SAT.

Credit=1 credit Time=18 weeks

Prerequisite=Admission to AUM

**01999C1002 English Composition 102-College Dual Enrollment
Grade 11&12 (+1.0 grade weight)**

Dual Enrollment courses allow high school students the opportunity to earn high school and college credit simultaneously. Because these are college courses, the approved University bears the sole responsibility for choosing the appropriate academic content. Students must have a high school GPA of 3.0 and a composite score of 20 on the ACT or 950 on the SAT.

Credit=1 credit Time=18 weeks

Prerequisite=Admission to AUM/Grade of "C" or better in English 101

English Electives

01059G1000 Bible as Literature Grades 9, 10, 11 &12

Study of the Old Testament, New Testament, heroes, prophecies, poetry and prose style.

Credit=1 credit Time=36 weeks

NOTE: DOES NOT FULFILL ANY OF THE FOUR ENGLISH CREDITS REQUIRED FOR GRADUATION.

01151G1001 Debate Grades 10, 11 & 12

Individual work in debate

Credit=1 credit Time=36 weeks

NOTE: DOES NOT FULFILL ANY OF THE FOUR ENGLISH CREDITS REQUIRED FOR GRADUATION.

01104G0500 Creative Writing Grades 10, 11 & 12

Composing poetry, short stories, and critical responses

Credit=0.5 credit Time=18 weeks

NOTE: DOES NOT FULFILL ANY OF THE FOUR ENGLISH CREDITS REQUIRED FOR GRADUATION.

01151G1011 Speech I Grades 9, 10, 11 & 12

Oral reading; children's literature; delivering, selecting, organizing speeches; persuasion; poise and verbal skills

Credit=1 credit Time=36 weeks

NOTE: DOES NOT FULFILL ANY OF THE FOUR ENGLISH CREDITS REQUIRED FOR GRADUATION.

3.2 Social Studies

04053G1000 World History: 1500 To Present Grade 9

Chronological history of the world: the emergence of a global age; the Age of Revolutions; the Age of Isms; era of global war; the world from 1500 to present

Credit=1 credit Time=36 weeks

04053H1000 Honors World History 1500 To Present Grade 9 (+0.5 grade weight)

Advanced work in the chronological history of the world: the emergence of a global age; the Age of Revolutions; the Age of Isms; era of global war; the world from 1500 to present

Credit=1 credit Time=36 weeks

04102G1000 United States History I: Beginnings to the Industrial Revolution (1877) Grade 10

Chronological survey of major events and issues: colonization; American Revolution; development of political system and distinct culture; slavery; reform movements; sectionalism; Civil War; Reconstruction; Alabama's history and geographic changes that have influenced aspects of life during and after events

Credit=1 credit Time=36 weeks

04102H1000 Honors United States History I: Beginnings to the Industrial Revolution (1877) Grade 10 (+0.5 grade weight)

Advanced work in the chronological survey of major events and issues: colonization; American Revolution; development of political system and distinct culture; slavery; reform movements; sectionalism; Civil War; Reconstruction; Alabama's history and geographic changes that have influenced aspects of life during and after events

Credit=1 credit Time=36 weeks

04103G1000 United States History II: The Industrial Revolution (1877) to the Present Grade 11

Chronological survey of major events and issues: industrialization; Progressivism; foreign policy; World War I; the Great Depression; World War II; post-war United States; contemporary United States; Alabama's history and geographic changes that have influenced aspects of life during and after events

Credit=1 credit Time=36 weeks

04103H1000 Honors United States History II: The Industrial Revolution (1877) to the Present Grade 11 (+0.5 grade weight)

Advanced work in the chronological survey of major events and issues: industrialization; Progressivism; foreign policy; World War I; the Great Depression; World War II; post-war United States; contemporary United States; Alabama's history and geographic changes that have influenced aspects of life during and after events

Credit=1 credit Time=36 weeks

04104E1000 AP United States History Grade 11 (+1.0 Grade Weight)

College-level advanced course following the curriculum established by the College Board Advanced Placement (AP) Program for United States history

Credit=1 credit Time=36 weeks

04151G0500 United States Government Grade 12

Origins, functions, and branches of U. S. government; representative democracy; federalism; political/civic life; analysis of Constitution, Bill of Rights, and other relevant documents; foreign policy

Credit=0.5 credit Time=18 weeks

04151H0500 Honors United States Government Grade 12 (+0.5 grade weight)

Advanced work in the government's origins, functions, and branches of U. S. government; representative democracy; federalism; political/civic life; analysis of Constitution, Bill of Rights, and other relevant documents; foreign policy

Credit=0.5 credit Time=18 weeks

04157E1000 AP United States Government & Politics Grades 12 (+1.0 grade weight)

College-level advanced course following the curriculum established by the College Board Advanced Placement (AP) Program for U. S. government and politics

Credit= 0.5 credit Time= 18 weeks

04201G0500 Economics Grade 12

Basic elements of economics; comparative economic systems and economic theories; role of the consumer; business and labor issues; functions of government; structure of U. S. banking system; role of Federal Reserve Bank

Credit=0.5 credit Time18 weeks

04201H0500 Honors Economics Grade 12 (+0.5 grade weight)

Basic elements of economics; comparative economic systems and economic theories; role of the consumer; business and labor issues; functions of government; structure of U. S. banking system; role of Federal Reserve Bank

Credit= 0.5 credit

Time=18 weeks

04202E1000 AP Macroeconomics Grade 12 (+1.0 grade weight)

College-level advanced course following the curriculum established by the College Board Advanced Placement (AP) Program for macroeconomics; basic economic concepts; measurement of economic performance; national income and price determination; financial sector; inflation, unemployment, and stabilization policies; economic growth and productivity; open economy; international trade and finance

Credit=1 credit

Time=36 weeks

Social Studies Electives**04254G1000 Psychology Grades 9, 10, 11 & 12**

History of psychological inquiry; methods of scientific research; human development; sensation and perception; motivation and emotion; states of consciousness; social psychology, cognition; intelligence and assessment; personality theories; stress; mental disorders and treatments

Credit=1 credit

Time=36 weeks

NOTE: DOES NOT FULFILL ANY OF THE FOUR SOCIAL STUDIES CREDITS REQUIRED FOR GRADUATION.

04258G1000 Sociology Grades 9, 10 11 & 12

Culture and society; social inequalities; social institutions; social change

Credit=1 credit

Time=36 weeks

NOTE: DOES NOT FULFILL ANY OF THE FOUR SOCIAL STUDIES CREDITS REQUIRED FOR GRADUATION.

04166G1000 Ethics Grades 9, 10, 11 & 12

Study of what is right or good conduct.

Credit=1 credit

Time=36 weeks

NOTE: DOES NOT FULFILL ANY OF THE FOUR SOCIAL STUDIES CREDITS REQUIRED FOR GRADUATION.

**04064G1000 Contemporary World Issues and Civic Engagement
Grades 9, 10,11 & 12**

Current issues from historical and geographical perspectives; knowledge of key contemporary personalities and events that impact lives

Credit=0.5 credit Time=18 weeks

NOTE: DOES NOT FULFILL ANY OF THE FOUR SOCIAL STUDIES CREDITS REQUIRED FOR GRADUATION.

3.3 Mathematics

***Students must earn one math credit during each year of high school.**

02073G1000 Geometry with Data Analysis Grades 9, 10, 11 & 12

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

Credit=1 credit

Time=36 weeks

02073H1000 Honors Geometry with Data Analysis Grades 9, 10, 11 & 12 (+0.5 grade weight)

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

Credit=1 credit

Time=36 weeks

02052G1000 Algebra I with Probability Grade 9, 10, 11 & 12

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

Credit=1 credit

Time= 36 weeks

02052H1000 Honors Algebra I with Probability Grade 9 & 10 (+0.5 grade weight)

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

Credit=1 credit Time= 36 weeks

02110G1000 Pre-Calculus Grades 9, 10, 11 & 12 (+0.5 grade weight)

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

Credit=1 credit Time=36 weeks

NOTE: FULFILLS ONE OF THE FOUR MATHEMATICS CREDITS REQUIRED FOR GRADUATION.

02203E1000 AP Statistics Grades 11 & 12 (+1.0 grade weight)

College-level advanced course approved by the College Board Advanced Placement (AP) Program for statistics; introductory, non-calculus based course to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusion from data.

Credit=1 credit Time=36 weeks

NOTE: FULFILLS ONE OF THE FOUR MATHEMATICS CREDITS REQUIRED FOR GRADUATION.

02124E1000 AP Calculus Grades 11 & 12 (+1.0 grade weight)

College-level advanced math course approved by the College Board Advanced Placement (AP) program for calculus; functions, graphs, and limits; derivatives; integrals; polynomial approximations and series.

Credit=1 credit Time=36 weeks

NOTE: FULFILLS ONE OF THE FOUR MATHEMATICS CREDITS REQUIRED FOR GRADUATION.

02056G1000 Algebra II with Statistics Grades 10, 11 & 12

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

Credit=1 credit Time=36 weeks

02999C1005 Calculus I-College Dual Enrollment Grade 11&12 (+1.0 grade weight)

Dual Enrollment courses allow high school students the opportunity to earn high school and college credit simultaneously. Because these are college courses, the approved University bears the sole responsibility for choosing the appropriate academic content. Students must have a high school GPA of 3.0 and a composite score of 20 on the ACT or 950 on the SAT. A minimum prerequisite of high school Algebra I, Geometry, and Algebra II with an appropriate mathematics placement score is required.

Credit=1 credit Time=18 weeks

Prerequisite=Admission to AUM

02999C1006 Calculus II-College Dual Enrollment

Dual Enrollment courses allow high school students the opportunity to earn high school and college credit simultaneously. Because these are college courses, the approved University bears the sole responsibility for choosing the appropriate academic content. Students must have a high school GPA of 3.0 and a composite score of 20 on the ACT or 950 on the SAT. A minimum prerequisite of

high school Algebra I, Geometry, and Algebra II with an appropriate mathematics placement score is required.

Credit=1 credit

Time=18 weeks

Prerequisite=Admission to AUM

02136G1000 Application of Finite Mathematics

Applications of Finite Mathematics was developed as a fourth-year course that extends beyond the three years of essential content that is required for all high school students. Applications of Finite Mathematics provides students with the opportunity to explore mathematics concepts related to discrete mathematics and their application to computer science and other fields and includes areas of study that are critical to the fast-paced growth of a technologically advancing world. The wide range of topics in Applications of Finite Mathematics includes logic, counting methods, information processing, graph theory, election theory, and fair division, with an emphasis on relevance to real-world problems. Logic includes recognizing and developing logical arguments and using principles of logic to solve problems. Students are encouraged to use a variety of approaches and representations to make sense of advanced counting problems, then develop formulas that can be used to explain patterns. Applications in graph theory allow students to use mathematical structures to represent real world problems and make informed decisions. Election theory and fair division applications also engage students in democratic decision-making so that they recognize the power of mathematics in shaping society. The prerequisite for Applications of Finite Mathematics is Algebra II with Statistics.

Credit=1 credit

Time=36 weeks

Prerequisite=Algebra II with Statistics.

Mathematics Electives

02996G1000 Mathematics Lab Elective

School systems should provide instructional support (labs or intervention periods) for students in Geometry with Data Analysis, Algebra I with Probability, and Algebra II with Statistics. Student assignment to this class period and the length of this class period are at the LEA's discretion. **Credit for this class period would count as elective credit, not mathematics credit.**

Credit=1 credit

Time=36 weeks

3.4 Science

03051G1000 Biology Grades 9, 10, 11 & 12

Inquiry-based course with engineering design integration; focused on patterns, processes, and interactions among living organisms including structures and processes, ecosystems, heredity, and unity and diversity.

Credit=1 credit Time=36 weeks

NOTE: BIOLOGY COURSES 03051G1000 AND 03051H1000 ARE THE ONLY SCIENCE COURSES THAT FULFILL THE "BIOLOGY" GRADUATION REQUIREMENT. MAY NOT BE DIVIDED INTO BIOLOGY 1 AND 2.

03051H1000 Honors Biology Grades 9, 10, 11 & 12 (+0.5 grade weight)

Advanced inquiry-based course with engineering design integration; focused on patterns, processes, and interactions among living organisms including structures and processes, ecosystems, heredity, and unity and diversity.

Credit=1 credit Time=36 weeks

NOTE: BIOLOGY COURSES 03051G1000 AND 03051H1000 ARE THE ONLY SCIENCE COURSES THAT FULFILL THE "BIOLOGY" GRADUATION REQUIREMENT. MAY NOT BE DIVIDED INTO BIOLOGY 1 AND 2.

03056E1000 AP Biology Grades 11 & 12 (+1.0 grade weight)

College-level advanced course following the curriculum established by the College Board Advanced Placement (AP) Program for biology; scientific process and application skills; molecules; cells; heredity; evolution; organisms; populations.

Credit=1 credit Time=36 weeks

Prerequisite=Biology AND Chemistry

NOTE: BIOLOGY COURSES 03051G1000 AND 03051H1000 ARE ALL DEVELOPED FROM THE BIOLOGY CORE. THESE THREE COURSES ARE THE ONLY SCIENCE COURSES THAT FULFILL THE "BIOLOGY" GRADUATION REQUIREMENT.

03159G1000 Physical Science Grades 9, 10, 11 & 12

Conceptual inquiry-based course with engineering design integration providing investigation of the basic concepts of chemistry and physics including matter and its interactions, motion and stability, energy, and waves and information technologies.

Credit=1 credit Time=36 weeks

NOTE: FULFILLS THE A "PHYSICAL SCIENCE" GRADUATION REQUIREMENT.

**03159H1000 Honors Physical Science Grades 9, 10, 11 & 12
(+0.5 grade weight)**

Advanced inquiry-based course with engineering design integration providing investigation of the basic concepts of chemistry and physics including matter and its interactions, motion and stability, energy, and waves and information technologies.

Credit=1 credit Time=36 weeks

NOTE: FULFILLS THE A “PHYSICAL SCIENCE” GRADUATION REQUIREMENT.

03101G1000 Chemistry Grades 10, 11 & 12

Investigation of empirical concepts central to biology, earth science, environmental science, and physiology; in-depth investigations on the properties and interactions of matter including matter and its interactions, concentration of forces and motion, types of interactions, stability and instability in chemical systems, conservation of energy, energy transformations, and applications of energy to everyday life.

Credit=1 credit Time=36 weeks

NOTE: FULFILLS THE “PHYSICAL SCIENCE” GRADUATION REQUIREMENT.

03101H1000 Honors Chemistry Grades 9, 10, 11 & 12 (+0.5 grade weight)

Advanced investigation of empirical concepts central to biology, earth science, environmental science, and physiology; in-depth investigations on the properties and interactions of matter including matter and its interactions, concentration of forces and motion, types of interactions, stability and instability in chemical systems, conservation of energy, energy transformations, and applications of energy to everyday life.

Credit=1 credit Time=36 weeks

NOTE: FULFILLS THE “PHYSICAL SCIENCE” GRADUATION REQUIREMENT.

03106E1000 AP Chemistry Grades 11 & 12 (+1.0 grade weight)

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

Credit=1 credit Time=36 weeks

Prerequisite= Chemistry AND Algebra II with Statistics

03003G1000 Environmental Science Grades 9, 10, 11 & 12

Study of natural resources, natural hazards, human impacts on Earth systems and global climate change; design engineering solutions to solve various problems affecting Earth and its environment.

Credit=1 credit

Time=36 weeks

NOTE: DOES NOT FULFILL THE GRADUATION REQUIREMENT FOR "BIOLOGY" OR "PHYSICAL SCIENCE".

03053G1000 Human Anatomy & Physiology Grades 9, 10, 11 & 12

Study of structure and function of human body systems from the cellular level to the organism level; interactions within and between systems that maintain homeostasis in an organisms; how personal choices, environmental factors, and genetic factors affect the human body.

Credit = 1 credit

Time =36 weeks

NOTE: DOES NOT FULFILL THE GRADUATION REQUIREMENT FOR "BIOLOGY" OR "PHYSICAL SCIENCE".

03053H1000 Honors Human Anatomy & Physiology Grades 11 &12 (+0.5 grade weight)

Advanced study of structure and function of human body systems from the cellular level to the organism level; interactions within and between systems that maintain homeostasis in an organisms; how personal choices, environmental factors, and genetic factors affect the human body.

Credit = 1 credit

Time =36 weeks

NOTE: DOES NOT FULFILL THE GRADUATION REQUIREMENT FOR "BIOLOGY" OR "PHYSICAL SCIENCE".

03151H1000 Honors Physics Grades 9, 10, 11 & 12 (+0.5 grade weight)

Advanced detailed exploration of properties of physical matter, physical quantities, motion and stability, energy, and waves and their applications for information transfer through authentic investigations and engineering design processes.

Credit = 1 credit

Time = 36 weeks

NOTE: FULFILLS THE A "PHYSICAL SCIENCE" GRADUATION REQUIREMENT.

03008G1000 Earth and Space Science Grades 9, 10, 11 & 12

Comprehensive application of all science disciplines with focus on concepts of the universe and its Stars, Earth and the solar system, history of planet Earth, Earth's materials and systems, plate tectonics, large-scale system interactions, the roles of water in Earth's surface processes, weather and climate, and bio-geology; includes integration of engineering, technology and application of science core ideas.

Credit = 1 credit

Time =36 weeks

NOTE: DOES NOT FULFILL THE GRADUATION REQUIREMENT FOR BIOLOGY OR "A PHYSICAL SCIENCE".

10019E1000 AP Computer Science Principles Grades 10, 11 & 12 (+1.0 grade weight)

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.

Credit=1 credit Time=36 weeks

NOTE: AP COMPUTER SCIENCE MAY COUNT AS A MATH CREDIT, A SCIENCE CREDIT, OR A CAREER TECHNICAL CREDIT.

Science Electives**03999G1001 Robotics (Physical Science Elective) Grades 9, 10, 11 & 12**

Students will use robotics to explore the fundamentals of engineering and electronics. The course will consist of lectures including principles of engineering, physics, electronics, mechanics, and computer programming. Laboratory experiments will require students to build simple robots to demonstrate these principles. While building the robots, students will learn the function of basic electronic components. Students will learn how to make simple robots capable of performing basic tasks. The design process will be emphasized as the robots are tested and their designs are modified.

Credit=1 credit Time=36 weeks

3.5 Physical Education and Health

Students must complete 1 unit of Physical Education-*Beginning Kinesiology* and ½ unit of Health to fulfill graduation requirements.

08017G1000 Beginning Kinesiology Grade 9

Stand-alone course which encompasses the basic concepts of athletics and fitness, and introduces students to the basic physiological, psychological, sociological, and mechanical principles of human movement. Highly recommended that students take Beginning Kinesiology in Grade 9. Prerequisite for all physical education elective courses.

Credit = 1 credit Time = 36 weeks

NOTE: THIS IS THE ONLY COURSE THAT FULFILLS THE GRADUATION REQUIREMENT FOR PHYSICAL EDUCATION.

08017G1001 Advanced Kinesiology Grade 10

Elective course that covers the knowledge base of kinesiology, the importance of physical activity in daily life, and the different career paths associated with a degree in kinesiology. This class is for students who wish to pursue a career as a physical education teacher, athletic, trainer, physical therapist, personal trainer, movement-related research specialist, or other careers related to health, fitness, and sports.

Credit = 1 credit Time = 36 weeks

Prerequisite: Beginning Kinesiology

08051G0500 Health Education Grades 9, 10, 11 & 12

This is a half-credit course which is required for graduation. It is recommended that students take this course in Grade 10.

Credit= 0.5 credit Time = 18 weeks

Physical Education Electives

Varsity Athletics Grades 9, 10, 11 & 12

Varsity Athletics is designed for the student with exceptional athletic ability that wishes to further develop his or her athletic skills. This course is designed to increase cardiovascular conditioning, to advance body conditioning, and to advance weight training, as related to various individual sports.

Athletics listed below.

Credit = 1 credit Time = 36 weeks

Students must have permission from his/her coach, the principal, or the strength and conditioning coach before registering for this course.

Varsity Athletics**08004G1000****08005G1000****08003G1000****08013G10BA****08013G10BK****080006G10CH****08013G10CC****08013G10FB****08013G10GO****08013G10SC****08013G10SB****08011G10TN****08013G10TF****08013G10VB****08013G10WR****Adventure/Cooperative Activities****Strength and Conditioning****Team Sports****Varsity Baseball****Varsity Basketball****Varsity Cheerleading****Varsity Cross Country****Varsity Football****Varsity Golf****Varsity Soccer****Varsity Softball****Varsity Tennis****Varsity Track and Field****Varsity Volleyball****Varsity Wrestling**

3.6 Driver Education

08152G1000 Driver and Traffic Safety Education Grade 10

Safe driving theory; in class study; driving hazards; boating safety; behind the wheel experience; safety practices.

Driver Education is an elective course designed to give students an opportunity to learn basic driving skills and to develop an appropriate attitude toward safe operation of motor vehicles. The course includes classroom instruction and on-street driving.

Credit=0.5 credit Time=18 weeks Fee= \$30

Note: This class is designed for students in grade 10. A student MUST have learning permit to take the course. NO EXCEPTIONS.

3.7 Service Learning

This course is designed to allow students to learn and develop through active participation in organized service experiences. It provides opportunities for students to develop professional work skills. This is an elective course for **Juniors and Seniors**, with priority given to **Seniors**.

22051X10 Student Aide Grades 11 & 12

Students taking this course are assigned to help a specific teacher with a variety of tasks such as running errands, making bulletin boards, filing, and other routine classroom tasks.

Credit =0 credit Time=18 weeks

OR

Credit =0 credit Time=36 weeks

3.8 Foreign Languages

24102G1000 French I Grades 9, 10, 11 & 12

Listening and speaking skills including understanding and responding to simple directions, expressions of courtesy, and questions related to daily routines; reading and writing skills including words and phrases used in basic situational contexts; beginning understanding of French-speaking cultures

Credit=1 credit Time=36 weeks In-person instruction at PHS only

24103G1000 French II Grades 10, 11 & 12

Listening and speaking skills including understanding and responding to a variety of directions, commands, and questions related to personal preferences; reading with comprehension main ideas from simple texts; writing with comprehension short presentations; further understanding of French-speaking cultures

Credit=1 credit Time=36 weeks In-person instruction at PHS only

Prerequisite=French I

24104G1000 French III Grades 11 & 12 (+0.5 grade weight)

Listening and speaking skills including understanding and responding to factual and interpretive questions; paraphrasing, explaining, and giving cause; interpreting main ideas and supporting details from authentic texts; creating presentations; increased understanding of French-speaking cultures

Credit=1 credit Time=36 weeks In-person instruction at PHS only

Prerequisite=French I and French II

24105G1000 French IV Grades 11 & 12 (+0.5 grade weight)

Listening and speaking skills including understanding and responding to factual and interpretive questions; proposing and supporting solutions to issues and problems; interpreting authentic prose and poetry selections; creating literary compositions; extensive understanding of French-speaking cultures

Credit=1 credit Time=36 weeks In-person instruction at PHS only

Prerequisite = French I, II, & III

24052G1000 Spanish I Grades 9, 10, 11 & 12

Listening and speaking skills including understanding and responding to simple directions, expressions of courtesy, and questions related to daily routines; reading and writing skills including words and phrases used in basic situational contexts; beginning understanding of Spanish-speaking cultures

Credit=1 credit Time=36 weeks

24053G1000 Spanish II Grades 10, 11 & 12

Listening and speaking skills including understanding and responding to directions, commands, and questions; reading with comprehension main ideas from simple texts; writing with comprehension short presentations; further understanding of Spanish-speaking cultures

Credit=1 credit Time=36 weeks

Prerequisite=Spanish I

24054G1000 Spanish III Grade 11 & 12 (+0.5 grade weight)

Listening and speaking skills including understanding and responding to factual and interpretive questions; paraphrasing, explaining, and giving cause; interpreting main ideas and supporting details from authentic texts; creating presentations; increased understanding of Spanish-speaking cultures

Credit=1 credit Time=36 weeks

Prerequisite=Spanish I and II

24055G1000 Spanish IV Grade 11 & 12 (+0.5 grade weight)

Listening and speaking skills including understanding and responding to factual and interpretive questions; proposing and supporting solutions to issues and problems; interpreting authentic prose and poetry selections; creating compositions; extensive understanding of Spanish-speaking cultures

Credit= 1 credit Time=36 Weeks

Prerequisite=Spanish I, II, and III

3.9 Fine Arts

3.9.1 Band Courses

05113G1001 Composition and Theory: Music Theory I Grade 10, 11 & 12

This one credit, proficient level course explores music theory through academic and hands-on study, and production. The curriculum builds practical understanding of the musical elements including rhythm, melody, harmony, form, and expression through creating, performing, and responding. Exposure to music from other cultures, music history and theory are embedded so students may connect these experiences to historical relevance, contemporary issue, and self-reflection.

Credit=1 credit

Time=36 weeks

Prerequisite=Traditional and emerging ensemble course or harmonizing instrument course at a minimal proficiency level of novice. Approval of the instructor.

05103G1001 Auxiliary Ensemble Grade 9, 10, 11 & 12

Open to all current guard and majorette members of the Autauga county School bands. Emphasis will be placed on achieving excellence in music, teamwork, and excitement. This is a performance-based class and will require all member participation in extra rehearsals and performances, including outside the regular school day. Performance opportunities include spring concert and possible involvement with national/regional competition circuits. Auxiliary unit members must purchase their own uniform, accessories, and some equipment. Travel opportunities are an added incentive for this class.

Credit=1 credit

Time=36 weeks

Prerequisite= Audition and placement in guard or majorette

05102G10001 Concert Band Grades 9, 10, 11 & 12

This is a one credit course, novice level, designed for beginning music students to experience instrumental music in a concert band setting. Students will develop a characteristic tone and engage in the processes of creating, performing and responding as related to instrumental music, while employing the concepts of timbre, rhythm, melody, harmony, form and expression. Students will study works of famous composers of concert band music and learn to connect musical experiences to other cultures and disciplines within and outside of the arts. Emphasis will be placed on achieving excellence in music, marching, and concert performance. This is a performance-based class and requires all member participation in extra rehearsals and performances, including winter concert band

camp, outside of the regular school day. This band performs several concerts, including the Alabama Band Association District and/or State Festival. All students will be required to purchase their own concert uniform. All members must pay a \$75.00 marching uniform rental fee.

Credit=1 credit

Time=36 weeks

Prerequisite= Audition and placement by approval of the instructor

05106G10001 Symphonic Band Grades 9, 10, 11 & 12

This is a one credit course, novice level, designed for beginning music students to experience instrumental music in a setting of a small orchestra ensemble.

Students will develop a characteristic tone and engage in the processes of creating, performing and responding as related to instrumental music, while employing the concepts of timbre, rhythm, melody, harmony, form and expression. Students will study works of orchestral music and learn to connect musical experiences to other cultures and disciplines within and outside of the arts.

Emphasis will be placed on achieving excellence in music, marching, and concert performance. This is a performance-based class and requires all member participation in extra rehearsals and performances, including winter concert band camp, outside of the regular school day. This band performs several concerts, including the Alabama Band Association District and/or State Festival. All students will be required to purchase their own concert uniform. All members must pay a \$75.00 marching uniform rental fee.

Credit=1 credit

Time=36 weeks

Prerequisite=Audition and placement by the instructor

05106G1011 Wind Symphony Grades 10, 11 & 12

This is a one credit course, novice level, designed for beginning music students to experience instrumental music in a chamber setting. Students will develop a characteristic tone and engage in the processes of creating, performing and responding as related to instrumental music, while employing the concepts of timbre, rhythm, melody, harmony, form and expression. Students will study works of famous composers of advanced level music literature and learn to connect musical experiences to other cultures and disciplines within and outside of the arts.

This class is open to students who are members of the Prattville Band. Some exceptions may be made for 9th students to be in this class. Emphasis will be placed on achieving excellence in music and concert performance. Instructional emphasis will also be on developing advanced instrumental technique and musicianship. This is a performance-based class and requires all member

participation in extra rehearsals and performances, including winter concert band camp, outside of the regular school day. This band performs several concerts, including the Alabama Band Association District and/or State Festival. In addition, this band could have performance at the regional, state, and national levels. All students will be required to purchase their own concert uniform. All members must pay a \$75.00 marching uniform rental fee.

Credit=1 credit

Time=36 weeks

Prerequisite = Audition and placement by the instructor

05109G10P1 Percussion Ensemble Grades 9, 10, 11 & 12

This is a one credit course, novice level, designed for beginning music students to experience instrumental music in a setting of only percussion instruments. Students will develop a characteristic tone and engage in the processes of creating, performing and responding as related to instrumental music, while employing the concepts of timbre, rhythm, melody, harmony, form and expression. Students will study works of quality compositions and learn to connect musical experiences to other cultures and disciplines within and outside of the arts.

Open to all current percussion members of the Prattville Bands. Preference given to current percussionists, but all band members may take this class. This class is not an alternative band. The members of this class will perform with the marching band and one of the concert bands during after school rehearsals. Emphasis will be on rudimental techniques of percussion and instrumental musicianship of keyboards. In addition, this class will form an indoor percussion ensemble that is performance based. Performance opportunities include spring concert and possible involvement with the regional/national Percussion Arts Society. Students must have their own complete bag of sticks/mallets, practice pad, and purchase their own appropriate technique book. Indoor ensemble literature will be supplied. All members must pay a \$75.00 marching uniform rental fee.

Credit=1 credit

Time=36 weeks

Prerequisite=Audition and placement by the instructor

05105G1001 Jazz Band Grade 9, 10, 11 & 12

This is a one credit course, novice level, designed for beginning music students to experience instrumental music in a jazz band or jazz ensemble setting. Students will develop a characteristic tone and engage in the processes of creating, performing and responding as related to instrumental music, while employing the concepts of timbre, rhythm, melody, harmony, form and expression. Students will study works of famous composers of jazz music and learn to connect musical experiences to other cultures and disciplines within and outside of the arts.

Open to all current members of the Prattville Bands. Emphasis will be on jazz theory, improvisation, and ensemble performance through the study of standard repertoire, listening examples, and rehearsal. Students will have the option of auditioning for the All State Jazz Band and other jazz honor groups. This class is not an alternative band. Students are expected to be enrolled in one of the concert ensembles. Performance opportunities include local, regional, and national concerts and festivals. All students will be required to purchase their own uniform.

Credit=1 credit

Time=36 weeks

Prerequisite=Audition and placement by instructor

3.9.2 Choral Courses

05111G10C1 Chamber Choir Grades 9, 10, 11 & 12

This is a one credit course, novice level, designed for beginning music 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. This course is designed for a small ensemble, such as Madrigals or Chamber Choir. This is a class for the advanced choral student. Students in this class will focus on musicianship and musicality and are expected to be able to read music. Students will sing more advanced and difficult standard choral literature specifically written for a mixed choral ensemble. This group will present concerts and participate in festivals and competitions. Choir members are required to participate in the concerts. Students must audition to get into this class. This is an on-going class so students may sign up for it more than once.

Credit=1 credit

Time=36 weeks

Fee=\$10 & possible uniform purchase

Prerequisite=Audition and approval of the instructor

05121G1001 Show Choir-"SPOTLIGHT" Grades 9, 10, 11 & 12

This is a one credit course, novice level, designed for beginning music 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.

Students are required to pass vocal and choreography auditions and academically eligible to participate. Students must purchase a Show Choir uniform and attend all concerts and performances. The group will participate in festivals and competitions and will usually take one major trip every year. Show Choir is a performance-based class and will require extra rehearsals and performances outside of the regular school day.

Credit=1 credit Time=36 weeks Fee=Uniform purchase & additional costs
Prerequisite=Audition and approval of the instructor

3.9.3 Art Courses

05154G1001 Visual Arts I (Grades 9, 10 & 11)

This one credit course, novice level, it 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.

This course focuses on art production and art appreciation. Course content features 2-dimensional art including drawing, value, perspective, design, and color. No previous art experience is necessary. Students will receive a supply list at the beginning of the term. Supplemental materials may be needed throughout the course.

Credit=1 credit Time=36 weeks Fee=\$10.00

05154G1002 Visual Arts II Grades 10, 11 & 12

This one credit course, intermediate level, it is the second of a sequential high school course. Creating, presenting, responding and connecting drive critical thinking, meaning, reflection, production and assessment to further 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.

This course is an advanced two-dimensional study with emphasis on drawing and color theory application. Special emphasis is placed on developing individual skills and techniques with new media. Students will purchase necessary materials.

Credit =1 credit

Time=36 weeks

Fee=\$25.00

Prerequisite= Visual Arts I and approval of the instructor.

05154G1003 Visual Arts III Grades 11 & 12 (+0.5 grade weight)

This one credit course, accomplished level, it 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 continued exploration and experimentation, this course provides students with a comprehensive study in studio processes, art criticism, aesthetics, and art history to provide a deeper understanding and appreciation of visual arts. 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.

The college-bound student may also prepare a portfolio for scholarship submission and consideration. Students will purchase necessary materials. Painting techniques that will be explored include watercolor, acrylic, and India ink. Further exploration into the drawing media of charcoal, conte', pastel and pen and ink are also a focus of the Art III course work.

Credit=1 credit

Time=36 weeks

Fee=\$25.00/semester

Prerequisite=Art I, Art II, and approval from the instructor

05154G1004 Visual Arts IV Grades 11 & 12

This one credit course, advanced level, it 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. Student will demonstrate concepts and skills through continued exploration and experimentation with an advanced study in studio processes, art criticism, aesthetics, and art history. Students will demonstrate critical problem solving techniques 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 equivalent to college-preparatory or honors to reinforce a continued enjoyment of visual arts. Safe practices and proper use of tools and materials are emphasized.

Credit=1 credit Time=36 weeks Fee=\$25.00/semester
Prerequisite=Visual Arts III and approval of the instructor

05174E1000 AP Studio Art, Two-Dimensional Design Grade 12 (+1.0 grade weight)

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

The Advanced Placement Studio Art Program enables highly motivated students to do college level work in studio art while still in high school. An end of term portfolio submission is required. This course concentrates on art production with an eye to portfolio/scholarship submission. The student is required to submit a proposal for independent study based on the individual's interest in a particular idea expressed visually. Focus is on a process of investigation, growth, and discovery. A portfolio of 24 (twenty- four) works is required. A written commentary describing the study and how it evolved must accompany the work.

Credit=1 credit Time=36 weeks Fee=\$25.00/semester & portfolio /evaluation fee
Prerequisite=Art I, Art II, Art III and approval of the instructor.

NOTE: Arts Courses must contain the four artistic processes -- Create, Perform, Respond, and Connect as found in the Alabama Course of Study: Arts Education. These courses may serve to fulfill the CTE and/or Foreign Language and/or Arts Education area of study. Arts courses lacking these four artistic processes may serve only as an elective credit.

05195G1031 Introduction to Three-Dimensional Design Grades 11 & 12

This one credit course, novice level, it is the first of a sequential high school course focusing directly on three-dimensional design. Creating, presenting, responding and connecting drive critical thinking, meaning, reflection, production and assessment to understand how three-dimensional design communicates ideas and allows for self-expression. Through exploration and experimentation, this course introduces core concepts of spatial visual design and provides students with a foundation in the three-dimensional design processes, art criticism, aesthetics, and art history. Students will address spatial design

problems to express ideas using a variety of traditional and contemporary media, while effectively applying the elements of art and principles of design. Safe practices and proper use of tools, equipment and materials are emphasized. This course offers the accomplished two-dimensional art student the opportunity to work in relief and in the round. The main medium for this class is clay, which will be shaped by hand and with the use of the potter's wheel. Work produced will be fired to produce ceramics. Students will optionally paint or glaze pieces to produce finished works. Students will receive a supply list at the beginning of the term. Supplemental materials may be needed throughout the course. Additional art media will be explored.

Credit=1 credit

Time=36 weeks

Fee=\$25.00

Prerequisite= Art I and approval of the instructor

3.9.4 Theatre Arts

05052G1001 Introduction to Theatre I Grade 9

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 and/or perform scenes and monologues. Students will also be introduced to basic history of theater and technical theatre.

Credit=1 credit

Time=36 weeks

05056G1001 Introduction to Technical Theatre Production I Grade 10

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 place on the safe practices and proper use of tools, equipment and materials.

Credit=1 credit

Time=36 weeks

05056G10T2 Introduction to Technical Theatre Production II Grade 11

This one credit course, accomplished level, continues the study of technical theatre. Creating, performing, responding and connecting drive critical thinking, meaning, reflection, production and assessment to further technical skills and artistry through a technical theatre experience. Students will explore in more depth 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.

Credit=1 credit

Time=36 weeks

Prerequisite: Introduction to Technical Theatre or approval of the instructor.

05056G10T3 Introduction to Technical Theatre Production III (Grade 12)

This one credit course, advanced level, continues the study of technical theatre. Creating, performing, responding and connecting drive critical thinking, meaning, reflection, production and assessment to demonstrate concepts and skills through a technical theatre experience. Students will learn 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 equivalent to college-preparatory or honors to reinforce a continued enjoyment of theatre.

Credit=1 credit

Time=36 weeks

Prerequisite: Technical Theatre Production II or approval of the instructor.

3.9.5 Fine Arts Electives

05119G0500 Music Elements, Arts Literacy Grades 9, 10, 11 & 12

In this course, students will produce original projects; utilize the creative process, and study elements and principles of organization in dance, music, theatre, and visual arts. Students will also analyze, compare, describe and classify works of art in dance, music, theatre and visual arts. Other topics covered are art vocabulary, performance and exhibition space, audience behavior, and technology.

Credit=0.5 credit

Time=18 weeks

05119G1000 Music Elements, Arts Literacy Grades 9, 10, 11 & 12

In this course, students will produce original projects; utilize the creative process, and study elements and principles of organization in dance, music, theatre, and visual arts. Students will also analyze, compare, describe and classify works of art in dance, music, theatre and visual arts. Other topics covered are art vocabulary, performance and exhibition space, audience behavior, and technology.

Credit=1 credit

Time=36 weeks

3.10 Career and Technical Education

The Autauga County's Career Technical Education program follows the state adopted Career and Technical Education model. This model includes sixteen career clusters. These clusters include courses that identify academic and technical knowledge and skills needed for students to pursue a wide range of career opportunities. Fourteen of the sixteen national clusters are currently offered in Autauga County. These clusters include: Agriculture, Food, and Natural Resources; Architecture and Construction; Art, A/V Technology, and Communication; Business, Management and Administration; Education and Training; Finance; Government and Public Administration; Health Science; Human Services; Information Technology; Law, Public, Safety, Corrections, and Security; Manufacturing; Science, Technology, Engineering and Mathematics; Transportation, Distribution and Logistics.

Courses are taught throughout the county, however, not all courses are taught at all schools. The description for each course will include on which school campuses the course is taught.

ACTC-Autauga County Technology Center

PHS-Prattville High School

MHS-Marbury High School

BS-Billingsley School

AS-Autaugaville School

22153G1000 Career Preparedness Grades: 9-12

A one-credit course that is taught in Grades 9-12. The course prepares students with content knowledge and skills in the areas of career development and academic planning, computer skill application, and financial literacy. Also, this course is designed to meet the required 20-hour online experience.

****This course is required for all incoming 9th graders.**

Credit=1 credit

Time= 36 weeks

Prerequisite: None

Fee: \$0

Campuses Offered – ACTC, BS, MHS, PHS, AS

COURSE DESCRIPTIONS BY CLUSTER

AGRICULTURE, FOOD, AND NATURAL RESOURCES

18003G1001 Fundamentals of Agriscience Grades: 9-12

A course that provides students with a general overview of the Agriculture, Food and Natural Resources cluster, which contains five pathways—Power, Structure, and Technical Systems; Environmental and Natural Resources Systems; Animal Systems; Plant Systems; and Agribusiness Systems. Students are involved in classroom and laboratory activities in each of the five pathway areas. Topics included in this course include career opportunities, safety, technology applications, agribusiness leadership, environmental science, soil science, plant science, forestry, animal science, aquaculture, wildlife science, pest management, woodworking, metalworking, small engines, electrical wiring, and plumbing.

Credit= 1 credit

Time= 36 weeks

Fee=\$25

Prerequisite: None

CAMPUSES OFFERED – ACTC, BS, MHS

18403G1000 Introduction to Agricultural Construction Grades: 9-12

A one-credit course designed to provide students with an overview of framing and building a structure. Topics include lumber, metal, material estimation, floor systems, framing systems (ceiling, wall, roof), and roofing materials for various structures.

Credit= 1 credit

Time= 36 weeks

Fee: \$25

Prerequisite: None

CAMPUSES OFFERED – ACTC

18004G1000 Construction Framing Grades: 9-12

A one-credit course designed to provide students with an understanding of the framing phase of a structure, including framing components. Topics include career opportunities, safety, lumber, material estimation, floor systems, wall framing, ceiling framing, stair construction, roof framing, and roof materials in various structures.

Credit= 1 credit

Time= 36 weeks

Fee: \$25

PREREQUISITE: None

CAMPUSES OFFERED - ACTC

18014G1000 Construction Site Preparation and Foundations Grades: 9-12
 Construction Site Preparation and Foundations is a one-credit course designed to facilitate student understanding of the first phases of construction, including types of structures and their uses. Topics include career opportunities, safety, planning, location, layout, concrete and masonry, and foundations of various structures.

Credit= 1 credit

Time= 36 weeks

Fee=\$25

Prerequisite: None

CAMPUSES OFFERED - ACTC

18011G1000 Construction Finishing and Interior Systems Grades: 9-12

A one-credit course designed to facilitate student understanding of the finishing phase of a structure. Students become familiar with the exterior and interior finishing of a structure. Topics include career opportunities, safety, windows, doors, plumbing, electrical wiring, insulation, wall coverings, storage, and finishes.

Credit= 1 credit

Time= 36 weeks

Fee= \$25

PREREQUISITE: None

CAMPUSES OFFERED - ACTC

18105G1012 Introduction to Veterinary Science Grades: 9-12

A one-credit course designed to provide students with an introduction to the veterinary science profession. Topics include career opportunities, safety, humane treatment, laws and regulations, anatomy and physiology, animal health, and veterinary services.

Credit= 1 credit

Time= 36 weeks

Fee=\$25

Prerequisite: None

CAMPUSES OFFERED – ACTC, BS

18501G1002 Introduction to Animal & Dairy Science Grades: 9-12

A one-credit course designed to introduce students to the field of livestock production and animal health and welfare. Students participate in activities related to the animal science field as they study the importance of the livestock industry, breed identification and characteristics, nutrition, disease and parasite control, genetics and reproduction, animal rights versus animal welfare, specifically animal production and animal products, livestock facilities and transportation, and regulatory agencies.

Credit= 1 credit

Time= 36 weeks

Fee=\$25

PREREQUISITE: None

CAMPUSES OFFERED - BS

18101G0500 Poultry Science Grades: 9-12

A half-credit course allowing students to discover of the importance of the poultry industry and to obtain basic knowledge of the issues and processes involved in poultry production. Topics include safety concerns related to poultry production, history and development, marketing and management, classification of poultry,

environmental issues, disease prevention and nutrition, poultry production facilities, and consumer issues.

Credit= 0.5 credit

Time= 18 weeks

Fee=\$25

Prerequisite: None

CAMPUSES OFFERED – BS

18104G0500 Equine Science Grades: 9-12

A half-credit course enabling students to become knowledgeable about caring for and managing horses. Topics include safety, history and development, anatomy and physiology, nutrition, health, and selection and conformation. Students also learn about tools, tack, and facilities necessary for the proper care of horses.

Credit= 0.5 credit

Time= 18 weeks

Fee=\$25

Prerequisite: None

CAMPUSES OFFERED – BS

18052G1001 Horticulture Science Grades: 9-12

Topics in Horticultural Science include career opportunities, safety, plant physiology, growing media, greenhouse facilities, greenhouse and nursery crop production, plant identification and classification, pest management, hydroponics and vegetable gardening, and technological applications.

Credit= 1 credit

Time= 36 weeks

Fee: \$25

Prerequisite: None

CAMPUSES OFFERED - MHS

18056G1001 Landscape Design and Management Grades: 9-12

The Landscape Design and Management course allows students to become more knowledgeable about and appreciative of landscape design and management. Topics include career opportunities, safety, landscape design, plant selection, landscape growth and the environment, landscape establishment and management, interior plantscaping and xeriscaping, landscape business management, and technology.

Credit= 1 credit

Time= 36 weeks

Fee: \$25

Prerequisite: None

CAMPUSES OFFERED - MHS

18054G1000 Turfgrass Management Grades: 9-12

Turfgrass Management prepares students to install and maintain turfgrass in a variety of settings. Topics in Turfgrass Management include turfgrass identification, establishment, maintenance, tools and equipment, and business management.

Credit= 1 credit

Time= 36 weeks

Fee: \$25

Prerequisite: None

CAMPUSES OFFERED - MHS

ARCHITECTURE AND CONSTRUCTION

13207G1014 NCCER Welding 1 Grades: 10-12

This is the first of four 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 practices, which are utilized in the manufacturing and construction industry.

Credit= 1 credit

Time= 36 weeks

Fee: \$50

Prerequisite: None

CAMPUSES OFFERED - ACTC

13207G1024 NCCER Welding 2 Grades: 10-12

This is the second of four required one-credit courses in the welding Technologies pathway. Topics include: basic shielded metal arc welding, blueprint reading, weld symbols, joint identification, and print reading. Emphasis is placed on fundamental knowledge, guided practice, and NCCER Welding Level I requirements.

Credit= 1 credit

Time= 36 weeks

Fee: \$50

Prerequisite: NCCER Welding 1

CAMPUSES OFFERED - ACTC

13207G1034 NCCER Welding 3 Grades: 11-12

This is the third of four required one-credit courses in the welding technologies pathway. Topics include Air Carbon Arc Cutting and Gouging, SMAW- groove welds with backing, SMAW Open V Groove Welds, etc.

Credit= 1 credit

Time= 36 weeks

Fee: \$50

Prerequisite: NCCER Welding 1 & 2

CAMPUSES OFFERED - ACTC

13207G1044 NCCER Welding 4 Grades: 11-12

This is the fourth of four required one-credit courses in the welding technologies pathway. Topics include Open V Groove Welds, Reading Welding Detail Drawings, GMAW & FCAW Plate, etc.

Credit= 1 credit

Time= 36 weeks

Fee: \$50

Prerequisite: NCCER Welding 1-3

CAMPUSES OFFERED - ACTC

Dual Enrollment Welding requires one class period. Each class meets for one semester. Classes are offered on alternating years. Students may take all four classes over a two-year period

13249C1029 Dual Enrollment Welding-SMAW FILLET/OFC WDT 108**Grades: 10-12**

This one-credit course provides the student with instruction on safety practices and terminology in the Shielded Metal Arc Welding (SMAW) process. Emphasis is placed on safety, welding terminology, equipment identification, set-up and operation, and related information in the SMAW process. This course also covers the rules of basic safety and identification of shop equipment and provides the student with the skills and knowledge necessary for the safe operation of oxy-fuel cutting.

Credit: 1 credit**Time= 18 weeks****Fee=None****Prerequisite: Admission to Central Alabama Community College****CAMPUSES OFFERED - ACTC****13249C1030 Dual Enrollment Welding-SMAW FILLET/PAC/CAC WDT 109****Grades: 10-12**

This one-credit course provides the student with instruction on safety practices and terminology in the Shielded Metal Arc Welding (SMAW) process. Emphasis is placed on safety, welding terminology, equipment identification, set-up and operation, and related information in the SMAW process. This course also covers the rules of basic safety and identification of shop equipment and provides the student with the skills and knowledge necessary for the safe operation of carbon arc cutting and plasma arc cutting.

Credit: 1 credit**Time= 18 weeks****Fee=None****Prerequisite: Admission to Central Alabama Community College****CAMPUSES OFFERED - ACTC****13249C1036 Dual Enrollment Welding-SMAW FILLET/OFC Lab WDT 122****Grades: 10-12**

This one-credit course is designed introduce the student to the proper set-up and operation of the shielded metal arc welding equipment. Emphasis is placed on striking and controlling the arc, and proper fit up of fillet joints. This course is also designed to instruct students in the safe operation of oxy-fuel cutting. Upon completion, students should be able to make fillet welds in all positions using electrodes in the F-3 groups in accordance applicable welding code and be able to safely operate oxy-fuel equipment and perform those operations as per the applicable welding code.

Credit: 1 credit**Time= 18 weeks****Fee=None****Prerequisite: Admission to Central Alabama Community College****CAMPUSES OFFERED - ACTC**

13249C1037 Dual Enrollment Welding-SMAW FILLET/PAC/CAC**Lab WDT 123 Grades: 10-12**

This one-credit course is designed introduce the student to the proper set-up and operation of the shielded metal arc welding equipment. Emphasis is placed on striking and controlling the arc, and proper fit up of fillet joints. This course is also designed to instruct students in the safe operation of plasma arc and carbon arc cutting. Upon completion, students should be able to make fillet welds in all positions using electrodes in the F-4 groups in accordance with applicable welding code and be able to safely operate plasma arc and carbon arc equipment and perform those operations as per applicable welding code.

Credit: 1 credit**Time= 18 weeks****Fee=None****Prerequisite: Admission to Central Alabama Community College****CAMPUSES OFFERED - ACTC****ARTS, AV TECHNOLOGY AND COMMUNICATION****11051G1015 Introduction to Television Production Grades: 9-12**

Introduction to Television Production is a one-credit course that 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. Upon successful completion of this course, students are prepared for a specialized high school course or for further study in television, film and communications at the college level.

Credit= 1 credit**Time= 36 weeks****Fee=\$25****Prerequisite: None****CAMPUSES OFFERED – PHS****11990G1001 Foundation of Arts, Audio-Video Technology & Communications
Grades: 9-12**

A one-credit course designed to introduce students to the areas of advertising design, animation, commercial photography, graphic arts, and television production. Classroom, laboratory, and real-world experiences promote teamwork, leadership, and further opportunities for application of knowledge and skills.

Credit= 1 credit**Time= 36 weeks****Fee=\$25****Prerequisite: None****CAMPUSES OFFERED – PHS****11051G1025 Television Production—Writing, Producing, and Performing
Grades: 10-12**

This one-credit course provides students with a variety of real-world learning opportunities through laboratory experiences in television writing, producing, and

performing. Students perform specialized roles in a regularly scheduled television program along with students specializing in Television Production—Studio Operations and Television Production—Photography and Editing.

Credit= 1 credit

Time= 36 weeks

Fee=\$25

Prerequisite: None

CAMPUSES OFFERED – PHS

11051G1035 Television Production—Studio Operations Grades: 9-12

Television Production—Studio Operations is a one-credit course that provides students with opportunities to participate in real-world laboratory experiences. They perform specialized roles in a regularly scheduled television program with students specializing in Television Production— Writing, Producing, and Performing and Television Production—Photography and Editing.

Credit= 1 credit

Time= 36 weeks

Fee=\$25

Prerequisite: Introduction to Television Production **CAMPUSES OFFERED – PHS**

BUSINESS MANAGEMENT AND ADMINISTRATION

10005G1001 Business Software Applications I Grades: 9-12

A one-credit foundation course emphasizing the skills required to create, edit, and publish industry-appropriate documents. Areas of instruction include the integration of word processing, desktop publishing, spreadsheets, database management, ad presentation software as well as the use of emerging technologies. Students will have the opportunity to gain industry-recognized credentials to document basic computer skills needed for future education or employment.

Credit= 1 credit

Time= 36 weeks

Fee=\$25

Prerequisite: None

CAMPUSES OFFERED – ACTC, MHS, PHS

10005G1002 Business Software Applications II Grades: 10-12

A one-credit course focuses on advanced word-processing and spreadsheet and database management skills using current and emerging integrated technologies. These skills include a variety of input technologies in the production of professional quality business documents and reports. Students will have the opportunity to gain industry-recognized credentials to document advanced computer skills needed for future education or employment.

Credit= 1 credit

Time= 36 weeks

Fee=\$25

Prerequisite: Business Software Applications I

CAMPUSES OFFERED – ACTC, MHS

12054G1001 Business and Legal Concepts Grades: 9-12

A one-credit course emphasizing the ethical and legal dimensions of conducting business. The course focuses on application of ethical concepts, historical events that have shaped business law in the United States, the US court system, contracts, insurance, and various areas of law that impact business operations.

Credit= 1 credit

Time= 36 weeks

Fee=\$25

Prerequisite: None

CAMPUSES OFFERED - ACTC

11153G1001 Digital Media Design Grades: 10-12

A one-credit course provides a creative, hands-on environment in which students collaborate to produce a variety of digital media projects. Students use various hardware, peripherals, software, and web-based to learn skills involving graphic design, digital photography, web design, and digital video production. The standards are designed for students to engage in critical thinking skills and practice appropriate behavior in the use of technology.

Credit= 1 credit

Time= 36 weeks

Fee=\$25

Prerequisite: Business Software Applications I **CAMPUSES OFFERED - ACTC**

11153G1002 Digital Publications Design Grades: 10-12

A one-credit course giving students marketable experience in both print and digital publishing. Emphasis is placed on page layout and design, computerized text, graphic art, digital photography, and the use of software to create a variety of publications.

Credit= 1 credit

Time= 36 weeks

Fee=\$25

Prerequisite: Business Software Applications I **CAMPUSES OFFERED – MHS**

12053G1000 Entrepreneurship in Business Management Grades: 9-12

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

Credit= 1 credit

Time= 36 weeks

Fee= \$25

Prerequisite: None

CAMPUSES OFFERED – PHS

22152G1001 Workforce Essentials Grades: 9-12

A one-credit course that provides students with higher-level academic and occupational skills that are transferable across jobs and occupational areas. Emphasis is placed on academic foundations for careers, applied technology, career development and employment, entrepreneurship and business economics, social and ethical responsibility, leadership, and teamwork, safety and health, and

technical knowledge and skills. Students build on prior knowledge, strengths, interests, and needs that enhance preparation for future employment and continuing education and training.

Credit= 1 credit

Time= 36 weeks

Fee=\$30

Prerequisite: None

CAMPUSES OFFERED - ACTC

Work-Based Learning Grades: 11-12

Designed to provide students with the opportunity to connect knowledge and skills obtained in the classroom with those obtained in an occupational setting.

Students will develop a portfolio of academic, technological occupational and work-readiness skills. Skills obtained through this course lead to the availability of a better-trained labor pool, addressing critical business and industry demands within our geographical area. In order to receive one credit for the class students must work 140 hours per year; for two credits 280 hours per year. Hours may be obtained through (apprenticeship) paid work experience or (internship) unpaid work experience. The Cooperative Education Work-Based Learning (WBL) program is supervised by an ACTC Coordinator.

Students may enroll in one WBL class or two WBL classes at the beginning or the end of the school day. Students are required to leave campus during these periods. Students are required to have transportation from school to work.

Fee= None

Prerequisite: Must apply and have PRIOR approval of a WBL Coordinator. Must maintain employment in order to remain in the course.

CAMPUSES OFFERED - Work-based learning is offered to all qualifying students in Autauga County.

LOSS OF EMPLOYMENT WILL RESULT IN SCHEDULE CHANGE AND LOSS OF CREDIT FOR ONE or TWO CLASSES.

22998G1014 Work-Based Experience-First Credit

22998G1024 Work-Based Experience-Second Credit

22998G1034 Work-Based Experience-Third Credit

22998G1044 Work-Based Experience-Fourth Credit

EDUCATION AND TRAINING

19151G1000 Education and Training Grades: 10-12

A one-credit course designed for students who are interested in pursuing careers in education. Course content includes the organizational structure of education, careers, the role of the teacher, characteristics of effective teachers, communication skills, the teaching and learning processes, learning styles, research, characteristics of positive classroom environments, human growth and development, curriculum development, student characteristics, teaching techniques, learning activities, educational initiatives, technology, and careers. Observational experiences are a required component of this course.

Credit= 1 credit

Time= 36 weeks

Fee= \$25

PREREQUISITE: Application required CAMPUSES OFFERED - ACTC

19153G1012 Early Childhood Education I Grades: 11-12

A one-credit course designed to help students learn ways to direct and operate an early childhood education program. Major topics include organizational structure; personnel policies, rules, and regulations; liability issues; principles of human growth and development; human development theories; observation techniques; interpersonal skills for promoting positive and productive relationships with children and their families; developmentally appropriate activities; individual and group activities; organization of teaching materials and supplies; learning activity centers; lesson plans; smooth transitions between routines and activities; teaching aides; operating equipment; play and recreational activities; dietary needs of children; preparation of snacks and meals; child health and safety; parental involvement; community resources; technology; and careers.

Credit= 1 credit

Time= 36 weeks

Fee= \$25

Prerequisite: Education and Training and Access to Transportation

CAMPUSES OFFERED - ACTC

19152G1012 Teaching I Grades: 11-12

This one-credit course helps students implement the teaching and learning processes. Major topics are funding sources, budget preparations, legal aspects, research, teaching and learning theories, curriculum development, positive learning environments, creative teaching techniques, appropriate learning activities, instructional resources, community resources and services, scope and sequence charts, course outlines, lesson plans, testing, grading, developing partnerships, technology, and careers. School-based laboratory experiences are essential for students to develop skills in teaching. Observational experiences are a required component of this course.

Credit= 1 credit**Time= 36 weeks****Fee=\$25****Prerequisite: Education and Training and Access to Transportation****CAMPUSES OFFERED - ACTC****19153G1022 Early Childhood Education II Grade: 12**

This one-credit course provides students with advanced knowledge and skills used in the field of education. Major topics include the impact of caregivers on the development of children, personnel tasks and responsibilities, legal issues and liability, licensure standards, policies for providing early childhood education programs, physical facility layout, management systems, facility maintenance, scheduling, child growth and development theories, brain research, risk management, factors contributing to at-risk children, observation records, guidance techniques, curriculum development, age-appropriate learning activities, children with exceptionalities, motivational techniques, special events and field trips, recreational activities, dietary needs of children, food choices, professionalism, health screening and health assessment, emergency evacuation procedures, rules and regulations, technology, and careers.

Credit= 1 credit**Time=36 weeks****Fee=\$25****Prerequisite: Early Childhood Education I and Access to Transportation** **CAMPUSES OFFERED - ACTC****19152G1022 Teaching II Grade: 12**

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

Credit= 1 credit**Time = 36 weeks****Fee= \$25****Prerequisite: Teaching I and Access to Transportation****CAMPUSES OFFERED - ACTC****FINANCE****12104G1012 Accounting Grades: 9-12**

A one-credit course designed to help students understand the basic principles of the accounting cycle. This course provides a comprehensive introduction to basic financial accounting, including analyzing and recording business transactions,

preparing and interpreting financial statements, demonstrating generally accepted accounting principles, and performing banking and payroll activities.

Credit: 1 credit

Time= 36 weeks

Fee= \$25

Prerequisite: None CAMPUSES OFFERED - ACTC

19262G1001 Personal Finance Grades: 9-12

A one-credit course designed to provide students with an overview of financial and investment planning procedures. Students interpret financial data to develop short- and long-term budgetary plans, produce accurate reports, and make informed business decisions. Students develop product knowledge related to financial and investment planning by examining characteristics for distinguishing among stocks, bonds, and commodities and between insurance and annuity products.

Credit= 1 credit

Time= 36 weeks

Fee= \$25

Prerequisite: None

CAMPUSES OFFERED - ACTC

GOVERNMENT AND PUBLIC ADMINISTRATION

CURRICULUM PLAN

Students who have two or three years of credit in JROTC and decide to go into the military may be awarded the pay grade of E-2 or E-3.

Service Academy and ROTC scholarships are also available for students desiring to enter college upon graduation.

A \$25.00 activity fee is required each year.

Students are required to follow Air Force grooming guidelines. This means there are restrictions for things like hair length and facial hair.

09151G1000 Air Force JROTC Leadership and Aviation History

Grades: 9-12

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

Credit= 1 credit

Time: 36 weeks

Fee= \$25

Prerequisite: None

CAMPUSES OFFERED – PHS

09004G1002 Air Force JROTC Leadership and Survival Grades: 9-11

A one-credit course designed to provide students with training in skills, knowledge, and attitudes necessary to successfully perform fundamental tasks.

Credit= 1 credit

Time= 36 weeks

Fee= \$25

Prerequisite: Leadership & Aviation History CAMPUSES OFFERED – PHS

09004G1001 Air Force JROTC Leadership and Cultural Studies Grades: 9-11

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

Credit= 1 credit

Time= 36 weeks

Fee=\$25

Prerequisite: Leadership & Aviation History CAMPUSES OFFERED – PHS

09152G1000 Air Force JROTC Leadership and Science of Flight Grades: 9-11

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

Credit= 1 credit

Time= 36 weeks

Fee=\$25

Prerequisite: Leadership & Aviation History CAMPUSES OFFERED – PHS

09154G1000 Air Force JROTC Leadership and Management of the Cadet Corps and Financial Education Grade: 12

A one-credit course that provides opportunities for students to manage the entire cadet corps. This hands-on experience affords the cadets the opportunity to plan, organize, coordinate, direct, and control corps operations. Students will also practice communication, decision-making, personal-interactive, managerial, and organizational skills.

Credit= 1 credit

Time= 36 weeks

Fee=\$25

Prerequisite: Leadership & Cultural Studies CAMPUSES OFFERED - PHS

HEALTH SCIENCE

14002G1001 Foundations of Health Science Grades: 10-11

A required one-credit course that introduces students to a wide range of health careers. Integrated academics combined with health care knowledge and skills provide the framework for a strong health care delivery system in the twenty-first century.

Credit= 1 credit

Time= 36 weeks

Fee=\$25

Prerequisite: None; Application Required CAMPUSES OFFERED - ACTC

14051G1000 Patient Care Technician Grades: 11-12

A one-credit course that provides students the opportunity to become effective and efficient multi-skilled healthcare providers. Students will develop a working knowledge of advanced patient care skills, vital signs, 12-lead ECG/EKG's, oxygen therapy, basic phlebotomy via simulation, and specimen collection and processing.

Essential workforce skills and safety will be emphasized, as well as, professional ethics and legal responsibilities. Students will ascertain employability skills and soft skills required by business and industry. Upon successful completion of required theory, lab, and simulation, students may be eligible to sit for Patient Care Technician Certification and EKG Certification.

Credit= 1 credit

Time= 36 weeks

Fee=\$25

Prerequisite: Foundations of Health Science CAMPUSES OFFERED - ACTC

14156G1000 Medical Coding Grades: 11-12

A one-credit course that is designed for students to gain knowledge about basic principles of coding and clinical classification systems. Students will study reimbursement methodologies, health records and data, health information requirements and standards, patient confidentiality, privacy, legal, and ethical issues. The course uses an integrated approach for teaching coding competencies by incorporating theory, lab, and application of skills. Students may be eligible to take a national certification exam in medical coding and medical administration assistant. Eligibility is based on individual certification agency requirements.

Credit= 1 credit

Time= 36 weeks

Fee=\$25

Prerequisite: Foundations of Health Science CAMPUSES OFFERED - ACTC

14154G1000 Medical Terminology Grades: 11-12

A one-credit course that is designed for students to develop health care specific knowledge for a career in the medical field. The course uses an integrated

approach for teaching the language of medicine to the health care student by incorporating medical terminology with anatomy and physiology and the disease process. This method has been proven to be a logical and effective method of learning the language of medicine.

Credit= 1 credit

Time= 36 weeks

Fee=\$25

Prerequisite: Foundations of Health Science CAMPUSES OFFERED - ACTC

14298G2000 Health Science Internship Grade: 12

A two-credit course designed for students in Grade 12. This course provides students with the knowledge and skills necessary for becoming a health care worker or for preparing students for postsecondary health care education programs. Health Science Internship is designed to be completed in a hospital, extended care facility, rehabilitation center, medical office, imagery laboratory, or other health care facility.

Credit= 2 credits

Time= 36 weeks

Fee= \$80

Prerequisite: Foundations of Health Science; Recommendation from Instructors and Access to Transportation.

Recommended prerequisites: Anatomy & Physiology CAMPUSES OFFERED - ACTC

HUMAN SERVICES - COSMETOLOGY

Students enrolling in Cosmetology courses must have two class periods available. Students earn one credit in the fall and one credit in the spring.

A typical sequence for Cosmetology courses:

First Year: Introduction to Cosmetology and Natural Hairstyling Practicum

Second Year: Salon Practices & Management and Chemical Services

19104G1000 Introduction to Cosmetology Grades: 10-12

A one-credit course that provides students with a study of concepts related to the cosmetology profession. Specific topics include cosmetology history and opportunities, professional image, infection control, fundamentals and principles of hair care and 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 cosmetology procedures.

Credit= 1 credit

Time= 36 weeks

Fee=\$50

Prerequisite: None

CAMPUSES OFFERED - ACTC

19148G1000 Natural Hairstyling Practicum Grades: 10-12

A one-credit course designed to provide instruction on natural hair care services and techniques for styling and grooming natural hair. Core domain service areas include work area and client preparation, set-up of supplies, safe work practices, procedures related to services and design, and blood exposure procedure.

Credit= 1 credit

Time: 36 weeks

Fee= \$50

Prerequisite: Introduction to Cosmetology CAMPUSES OFFERED - ACTC

19107G1003 Salon Practices and Management Grades: 11-12

A one-credit course that enables students to 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.

Credit= 1 credit

Time= 36 weeks

Fee= \$50

Prerequisite: Introduction to Cosmetology CAMPUSES OFFERED - ACTC

19103G1002 Chemical Services Grades: 11-12

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 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.

Credit= 1 credit

Time= 36 weeks

Fee= \$50

Prerequisite: Introduction to Cosmetology CAMPUSES OFFERED - ACTC

HUMAN SERVICES - FOOD, WELLNESS, AND DIETETICS**19251G1000 Family and Consumer Sciences Grades: 9-12**

A one-credit course that provides opportunities for students to explore the core content included in the Family Studies and Consumer Sciences; Early Childhood Development and Services; Fashion; Interior Design; Food, Wellness, and Dietetics; and Consumer Sciences pathways. Major topics are marriage and family life, parenting and caregiving, consumer services, apparel, housing, food and nutrition, and technology and careers.

Credit= 1 credit

Time= 36 weeks

Fee= \$25

Prerequisite: None

CAMPUSES OFFERED - ACTC

19299G1000 Entrepreneurship in FACS Grades: 9-12

A one-credit course that teaches the skills needed to own and operate a business. Topics include financial planning, employee management, owner rights and responsibilities, and communication techniques. Students are prepared to create and manage their own Family and Consumer Science business or embark on a career related to business development. Class projects develop entrepreneurial skills by providing insight into manufacturing products and offering services.

Credit= 1 credit**Time= 36 weeks****Fee= \$25****Prerequisite: Food & Nutrition, Family & Consumer Science, or Event Planning****CAMPUSES OFFERED - ACTC****16057G1000 Event Planning Grades: 9-12**

This is a one-credit course where students will learn to organize and plan all aspects of business and social events including the food, location, and décor associated with hiring an event planner. Concepts taught in the course to meet the needs of clients include planning for the event with activities, establishing a budget, determining the theme, planning the guest list, determining the location, developing an event plan schedule, planning transportation needs, training of staff, staging the event, calculating room and space requirements, providing necessary technology and equipment, planning food and beverage services, securing entertainment, understanding legal issues in event planning, and conducting post-evaluations of event.

Credit= 1 credit**Time= 36 weeks****Fee= \$25****Prerequisite: Food & Nutrition****CAMPUSES OFFERED - ACTC****05190G1001 Fashion Grades: 9-12**

A one-credit course designed to introduce students to the selection and care of clothing and accessories for individuals and families throughout the life span. A school-based laboratory is required for this course.

Credit= 1 credit**Time= 36 weeks****Fee= \$25****Prerequisite: None****CAMPUSES OFFERED- ACTC****19252G1000 Food and Nutrition Grades: 9-12**

A one-credit course where topics include the impact of daily nutrition and wellness practices on long-term health and wellness; physical, social, and psychological aspects of healthy nutrition and wellness choices; selection and preparation of nutritious meals and snacks based on United States Department of Agriculture (USDA) Dietary Guidelines and Food Guide Pyramid; safety, sanitation, storage, and recycling processes and issues associated with nutrition and wellness; impacts of science and technology on nutrition and wellness issues; and nutrition and wellness career paths.

Credit= 1 credit
Prerequisite: None

Time= 36 weeks **Fee= \$25**
CAMPUSES OFFERED - ACTC

INFORMATION TECHNOLOGY

10001G1000 Information Technology Fundamentals Grades: 9-12

A one-credit course that introduces students to the knowledge base and technical skills for information technology careers. Students study the nature of business and demonstrate knowledge of the functions of information systems in business. Emphasis is placed on maintaining a safe working environment and on building interpersonal skills needed for working in the information technology environment. Students demonstrate appropriate knowledge and behaviors regarding legal responsibilities of information technology professionals. They explore a variety of information technology career opportunities and develop a personal career plan to meet career goals and objectives. Students have the opportunity to take the TestOut PC Pro certification exam and the CTech Copper Cabling certification.

Credit= 1 credit
Prerequisite: None

Time= 36 weeks **Fee= \$25**
CAMPUSES OFFERED - ACTC

10101G1014 Networking I Grades: 10-12

A one-credit course designed to provide students with skills involving a hands-on, career-oriented approach to learning networking that includes practical experiences. This course includes activities that emphasize the application of networking in terms of implementation and career opportunities. Students have the opportunity to take the TestOut Network Pro certification exam and the C-Tech Fiber certification.

Credit= 1 credit

Time= 36 weeks

Fee= \$25

Prerequisite: Information Technology Fundamentals **CAMPUSES OFFERED - ACTC**

10101G1024 Networking II Grades: 11-12

A one-credit course designed to provide students with skills involving hands-on learning by installing a router, configuring a server, and performing disaster recovery. This course includes a strong emphasis on proper safety practices and industry ethics. Students have the opportunity to take the TestOut Security Pro certification exam.

Credit= 1 credit

Time= 36 weeks

Fee= \$25

Prerequisite: Networking I

CAMPUSES OFFERED - ACTC

10102G1034 Networking III Grades: 11-12

Networking III is a one-credit course designed to provide students with skills needed to perform routing and switching in an enterprise network. Students configure a switch with virtual local area networks (VLANs) and inter-switch communication. Students perform troubleshooting using a structured methodology.

Credit= 1 credit

Time= 36 weeks

Fee= \$25

Prerequisite: Networking II

CAMPUSES OFFERED - ACTC

LAW, PUBLIC SAFETY, CORRECTIONS, AND SECURITY**15001G1000 Introduction to Public Safety Grades: 9-12**

A one-credit course designed to introduce students to the competencies related to public service job preparatory programs. Students develop knowledge and skills in fire management services, legal services, and law enforcement services.

Credit= 1 credit

Time= 36 weeks

Fee= \$25

Prerequisite: None

CAMPUSES OFFERED - ACTC

14055G1000 Emergency Services and Management Grades: 10-12

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.

Credit= 1 credit

Time= 36 weeks

Fee= \$25

Prerequisite: Intro to Public Safety (formerly Principles of Public Service)

CAMPUSES OFFERED - ACTC

15152G1001 Firefighting I Grades: 10-12

A one-credit course designed to provide students with instruction in techniques of firefighting. Emphasis is placed on safety, fire prevention and control, hazardous materials, sprinkler systems, first responder, and public relations.

Credit= 1 credit

Time= 36 weeks

Fee= \$25

Prerequisite: Intro to Public Safety (formerly Principles of Public Service);

Physical Required by Physician CAMPUSES OFFERED - ACTC

15152G1000 Firefighting II Grades: 10-12

A one-credit course designed to provide students with expanded information in the fire service organization, fire ground environment, firefighter safety, the science of fire, and fire behavior. Specific course topics surveyed and demonstrated through practical exercises include forcible entry, ground ladders,

and tactical ventilation; fire and loss control; determination of origins and causes of fires; firefighter survival; and dealing with hazardous material and weapons of mass destruction.

Credit= 1 credit

Time= 36 weeks

Fee= \$25

Prerequisite: Firefighting I; Physical Required by Physician

CAMPUSES OFFERED - ACTC

15151G1001 Fire Science I Grades: 10-12

A one-credit course designed to provide students with information regarding career possibilities in firefighting and instruction in firefighting techniques. Topics include emergency care provider; fire service history and orientation; fire department communications; fire behavior; firefighter safety and health; personal protective equipment, portable for extinguishers; water supply; fire hose and streams; fire life safety initiative; building construction; ground ladders; ropes and knots; and structure search and victim removal.

Credit= 1 credit

Time= 36 weeks

Fee= \$25

Prerequisite: Intro to Public Safety (formerly Principles of Public Service);

Physical Required by Physician CAMPUSES OFFERED - ACTC

15151G1000 Fire Science II Grades: 10-12

A one-credit course designed to provide students with advanced instruction and opportunities to demonstrate fire-fighting techniques. Topics include forcible entry; tactical ventilation; fire control; fire origin and causes; firefighter survival; hazards, behavior, and identification of hazardous materials and weapons of mass destruction; and hazardous material operations, product control and personal protective equipment.

Credit= 1 credit

Time= 36 weeks

Fee= \$25

Prerequisite: Fire Science I; Physical Required by Physician

CAMPUSES OFFERED - ACTC

15997G1001 Senior Career Pathway Project-Law, Public Safety, Corrections & Security Grade: 12

A one-credit course designed for senior 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.

Credit= 1 credit

Time= 36 weeks

Fee= \$25

Prerequisite: Intro to Public Safety (formerly Principles of Public Service);

Physical Required by Physician CAMPUSES OFFERED - ACTC

MANUFACTURING

21009G1001 Introduction to Robotics Grades: 9-12

A one-credit course designed to provide students with the fundamental knowledge and skills of robotics. Emphasis is placed on fundamentals of electrical current, digital circuits, electronic control systems, and the design and operation of robotic systems.

Credit= 1 credit

Time= 36 weeks

Fee= \$25

Prerequisite: None

CAMPUSES OFFERED – ACTC

13001G1000 Introduction to Manufacturing Grades: 9-12

A one-credit course focuses on the fundamental knowledge and skills needed in the manufacturing industry. Emphasis is placed on job safety, use of manufacturing materials, primary manufacturing processes, secondary manufacturing processes, and manufacturing systems.

Credit= 1 credit

Time= 36 weeks

Fee= \$25

Prerequisite: None

CAMPUSES OFFERED – ACTC

17002G1001 Architecture, Construction, and Manufacturing Grades: 9-12

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 and construction and manufacturing industries.

Credit= 1 credit

Time= 36 weeks

Fee= \$25

Prerequisite: None

CAMPUSES OFFERED - ACTC

17049G1000 Safety and Health Regulations Grades: 9-12

A one-credit course designed to provide students with information on the importance of government and industry regulations as well as individual responsibilities for performing activities safely. Students identify common safety hazards found in the workplace and examine their own roles in minimizing and avoiding unsafe practices. Specific topics include flammable and combustible liquids, emergency egress and fire protection, electrical safety, environmental control, machine guarding, tool safety, first aid, hazard communications, personal protective equipment, walking and working surfaces, and material handling and storage.

Credit= 1 credit

Time= 36 weeks

Fee= \$25

Prerequisite: None

CAMPUSES OFFERED – ACTC

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH

21017G1000 Introduction to Engineering Design Grades: 9-12

This one-credit course enables students to make an informed career choice through the study and application of mechanical, electrical, and other engineering systems. Students conduct research and design engineering projects to enhance abilities and expand interest in the field of engineering. Projects reinforce the application of communication, mathematics, and science. Computer technology applications are utilized extensively in this course to enable students to visualize, model, prototype, solve, and report comprehensive design problems.

Credit= 1 credit

Time= 36 weeks

Fee= \$35

Prerequisite: None

CAMPUSES OFFERED - ACTC

21018G1000 Principles of Engineering Grades: 10-12

A one-credit course designed to explore the application of engineering principles in various technological areas including construction, transportation, communication, manufacturing, and bioengineering. Students gain knowledge and experience needed to effectively improve processes and systems in each of these areas.

Credit= 1 credit

Time= 36 weeks

Fee= \$35

Prerequisite: Introduction to Engineering

CAMPUSES OFFERED - ACTC

21021G1000 Civil Engineering and Architecture Grades: 10-12

A one-credit course designed to explore the application of engineering principles in various technological areas including construction, transportation, communication, manufacturing, and bioengineering. Students gain knowledge and experience needed to effectively improve processes and systems in each of these areas.

Credit= 1 credit

Time= 36 weeks

Fee= \$35

Prerequisite: Introduction to Engineering

CAMPUSES OFFERED - ACTC

21022G1000 Computer Integrated Manufacturing Grades: 10-12

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.

Credit= 1 credit

Time= 36 weeks

Fee= \$35

Prerequisite: Introduction to Engineering

CAMPUSES OFFERED - ACTC

21025G1000 Engineering Design and Development (EDD) Grades: 11-12
 Engineering Design and Development (EDD) is a one-credit course designed for 12th grade students. EDD is the capstone course in the PLTW high school engineering program. Students perform research to select, define and justify a problem. It is an open-ended engineering research course in which students work to design and develop an original solution to a well-defined and justified open-ended problem by applying an engineering design process.

Credit: 1 credit

Time= 36 weeks

Fee= \$45

Prerequisite: Principles of Engineering & 2 other courses in cluster

CAMPUSES OFFERED - ACTC

TRANSPORTATION, DISTRIBUTION, AND LOGISTICS

Maintenance and Light Repair A-D Grades: 9-12

20104G1001 Maintenance and Light Repair A

20104G1002 Maintenance and Light Repair B

20104G1003 Maintenance and Light Repair C

20104G1004 Maintenance and Light Repair D

One-credit courses designed to provide students with foundational knowledge and skills relative to:

A: safety, engine repair, automatic transmissions, and manual drive trains.

B: safety, suspension and steering, and brakes.

C: safety, brakes, and electrical/electronic systems.

D: safety, engine performance, electrical/electronic systems, and heating and air conditioning.

Credit= 1 credit

Time= 36 weeks

Fee= \$25

CAMPUSES OFFERED - ACTC

Dual Enrollment Automotive requires one class period. Each class meets for one semester. Classes are offered on alternating years. Students may take all four classes over a two-year period.

20149C1015 Dual Enrollment Fundamentals of Automotive Technology ASE 101 Grades: 10-12

This course provides basic instruction in Fundamentals of Automotive Technology.

Credit= 1 credit Time= 18 weeks Fee= None
Prerequisite: Admission to Trenholm State Community College
CAMPUSES OFFERED - ACTC

20149C1017 Dual Enrollment Braking Systems ASE 121 Grades: 10-12
 This one-credit course provides instruction in automotive technology or auto mechanics. Emphasis is placed on the practical application of brakes. This is a CORE course.

Credit= 1 credit Time= 18 weeks Fee= None
Prerequisite: Admission to Trenholm State Community College
CAMPUSES OFFERED - ACTC

20149C1018 Dual Enrollment Steering and Suspension ASE 122
Grades: 10-12

This one-credit course provides instruction in automotive technology or auto mechanics. Emphasis is placed on the practical application of steering and suspension. This is a CORE course.

Credit= 1 credit Time= 18 weeks Fee= None
Prerequisite: Admission to Trenholm State Community College
CAMPUSES OFFERED - ACTC

20149C1019 Dual Enrollment Automotive Engines ASE 124 Grades: 10-12

This course provides instruction on the operation, design, and superficial repair of automotive engines. Emphasis is placed on understanding the four-stroke cycle, intake and exhaust manifolds and related parts, engine mechanical timing components, engine cooling and lubrication system principles and repairs, and basic fuel and ignition operation. This is a CORE course.

Credit= 1 credit Time= 18 weeks Fee= None
Prerequisite: Admission to Trenholm State Community College
CAMPUSES OFFERED - ACTC

20149C1031 Dual Enrollment Drive Train and Axles AUM 130
Grades: 10-12

This course provides basic instruction in automotive drive trains and axles. Emphasis is placed on the understanding and application of basic internal and external operation relating to proper operation and drivability. This is a CORE course.

Credit= 1 credit Time= 18 weeks Fee= None
Prerequisite: Admission to Trenholm State Community College
CAMPUSES OFFERED - ACTC

20149C1033 Dual Enrollment Advanced Automotive Engines AUM 220**Grades: 10-12**

This course provides in-depth instruction concerning internal engine diagnosis, overhaul and repair, including but not necessarily limited to the replacement of timing chains, belts, and gears, as well as the replacement or reconditioning of valve train components as well as replacement of pistons, connecting rods, piston rings, bearings, lubrication system components, gaskets, and oil seals.

Credit= 1 credit**Time= 18 weeks****Fee= None****Prerequisite: Admission to Trenholm State Community College****CAMPUSES OFFERED - ACTC****20149C1034 Dual Enrollment Manual Transmission/Transaxle AUM 224****Grades: 10-12**

This course covers basic instruction in manual transmission and transaxles. Emphasis is placed on the understanding and application of basic internal and external operation relating to proper operation and drivability.

Credit= 1 credit**Time= 18 weeks****Fee= None****PREREQUISITE: Admission to Trenholm State Community College****CAMPUSES OFFERED – ACTC**

4.0 Other Programs

Student Leadership Course

This course provides an opportunity to study, practice, and develop group and individual leadership and organizational skills. These skills include, but are not limited to the following topic areas: leadership roles, interpersonal relations, civic responsibility, decision-making, problem solving and communication. Students enrolled in this course apply these skills in dealing with peers, school administration and the community. This course takes a hands-on, lab oriented approach to leadership by involving students in participatory leadership through project planning and implementation of marginal skills, each student being a member of the Student Government Association or a leader of a club.

Credit=1 credit

Time=36 weeks

ACCESS Distance Learning

Alabama Connecting Classrooms, Educators and Students Statewide

Online courses are offered to all students through Alabama State Department of Education ACCESS Distance Learning Program. Courses are taught by certified teachers through an online course module where assignments, online texts and messages are posted. Students access the online courses in computer lab during the assigned period in their school day schedule. Each computer lab is monitored by an ACCESS facilitator daily to assist students. Students may view a course listing and request ACCESS course through their assigned counselor. Students considering ACCESS courses need to have a good work ethic and should be comfortable using a computer and working on the Internet.

Early Release

Early Release is a program of study designed to assist students in gaining valuable knowledge and experience by allowing them to participate in planned and supervised educational or work experiences. These experiences include work at a part-time job, or further education through dual enrollment, early college, or other State Department of Education approved programs. Please note that the student's parent and the school principal must approve a student's employment during regular school hours; the student must be on track to graduate and he/she must meet all graduation requirements. A formal application process is required. Students must present check stubs every two weeks to the Senior Counselor. No academic credit is awarded for this program. Student must have 20 credits and a 2.5 GPA to be eligible. Any

student who does meet the above criteria may appeal to school administration.

Dual Enrollment Program

Dual enrollment allows certain high school students to enroll in postsecondary institutions to earn credits for the high school diploma and/or postsecondary degree at both the high school and participating postsecondary levels.

Students participating in a dual enrollment program shall pay normal tuition as required by the postsecondary institution and shall meet the following requirements:

Have a "B" average, as defined by Board policy, in completed high school courses;

Have written approval of the student's principal and Superintendent;

Be in grade 10, 11, or 12 or have an exception granted by the participating postsecondary institution upon the recommendation of the student's principal and Superintendent and in accordance with State Department of Education regulations regarding gifted and talented students;

Have taken a state approved college placement test, where minimum placement is required, specifically for college-level English, math or reading courses.