

**WASHINGTON  
ACADEMY  
Charter School**

*The Perfect Fit!*



**Course Guide  
2016-2017**

# Washington Academy Charter School

## Course Description Guide

### 2016-2017

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## **MISSION**

**Washington Academy will provide guidance, skills, and knowledge for students in a nontraditional environment in order to develop life-long learners with goals of higher achievement.**

**Washington Academy Charter High School  
Graduation Check List**

Name \_\_\_\_\_ ID# \_\_\_\_\_ Target Graduating Yr. \_\_\_\_\_

- Core (C)
- Smart Core (SC) 1 Math beyond Algebra 2 required.

English (4 UNITS)	
<input type="checkbox"/> English 9	<input type="checkbox"/>
<input type="checkbox"/> English 10	<input type="checkbox"/>
<input type="checkbox"/> English 11	<input type="checkbox"/>
<input type="checkbox"/> English 12	<input type="checkbox"/>

Math (4 UNITS)	
<input type="checkbox"/> Algebra I	<input type="checkbox"/>
<input type="checkbox"/> Bridge 2 Algebra 2	<input type="checkbox"/>
<input type="checkbox"/> Geometry	<input type="checkbox"/>
<input type="checkbox"/> Algebra II	<input type="checkbox"/>
<input type="checkbox"/> _____	<input type="checkbox"/>

Science (3 UNITS)	
<input type="checkbox"/> Physical Science	<input type="checkbox"/>
<input type="checkbox"/> Biology	<input type="checkbox"/>
<input type="checkbox"/> Chemistry or Physics	<input type="checkbox"/>

Required semester courses (4 courses - 1/2 UNIT EACH)
<input type="checkbox"/> Physical Education
<input type="checkbox"/> Health
<input type="checkbox"/> Oral Communications (speech, debate)
<input type="checkbox"/> Fine Arts (music, art, fine arts)

Social Studies (3 UNITS)
<input type="checkbox"/> Civics
<input type="checkbox"/> Economics
<input type="checkbox"/> World History
<input type="checkbox"/> American History

CAREER FOCUS: (6 UNITS)		
1. _____	5. _____	9. _____
2. _____	6. _____	10. _____
3. _____	7. _____	11. _____
4. _____	8. _____	12. _____
_____	_____	_____

Dates Updated			

**Arkansas Challenge Scholarship**  
Must have a 19 or higher on the ACT.

## Washington Academy Charter School Course Selection Form for 2016-2017

Student's Name: \_\_\_\_\_ ID# \_\_\_\_\_ Grade \_\_\_\_\_ Graduation Year \_\_\_\_\_  
 Parent/Guardian Name \_\_\_\_\_ Parent contact # \_\_\_\_\_ Student contact # \_\_\_\_\_

**Graduation Requirements: 4 English Credits, 4 Math Credits, 3 Science Credits, and 3 History Credits, Semester of PE, Semester of Health, Semester of Oral Communications, Semester of Fine Arts and 6 Elective Credits.**

- |  |  |  |   |   |
|--|--|--|---|---|
| <input type="checkbox"/> English 9               | <input type="checkbox"/> Algebra 1, 1A, 1B | <input type="checkbox"/> Physical Science    | <input type="checkbox"/> *Civics          | <input type="checkbox"/> *PE              |
| <input type="checkbox"/> English 10              | <input type="checkbox"/> Geometry          | <input type="checkbox"/> Biology             | <input type="checkbox"/> *Economics       | <input type="checkbox"/> *Health          |
| <input type="checkbox"/> English 11              | <input type="checkbox"/> Bridge 2 Alg 2    | <input type="checkbox"/> Chemistry           | <input type="checkbox"/> World History    | <input type="checkbox"/> *Oral Com        |
| <input type="checkbox"/> English 12              | <input type="checkbox"/> Algebra 2         | <input type="checkbox"/> Physics             | <input type="checkbox"/> American History | <input type="checkbox"/> * Art or *Music  |
| <input type="checkbox"/> Transitional English 12 | <input type="checkbox"/> Algebra 3         | <input type="checkbox"/> Environmental Sc    | <input type="checkbox"/> AP US History    | <input type="checkbox"/> Critical Reading |
| <input type="checkbox"/> AP English Literature   | <input type="checkbox"/> Pre-calculus      | <input type="checkbox"/> AP Environmental Sc |   | <input type="checkbox"/> ELA Drama        |
| <input type="checkbox"/> AP Calculus             | <input type="checkbox"/> AP Calculus       | <input type="checkbox"/> Computer Sc & Math  |   |   |

### Washington Academy Electives

- |   |  |
|---|--|
| <input type="checkbox"/> Art 45000W   | <input type="checkbox"/> Art II                    |
| <input type="checkbox"/> Vocal Music  |  |
| <input type="checkbox"/> Computerized Business Applications   |  |
| <input type="checkbox"/> *World Geography   |  |
| <input type="checkbox"/> Journalism I   | <input type="checkbox"/> Journalism II             |
| <input type="checkbox"/> Marketing 49233W Release: 1 period(492341), 2 periods(492342), or 3 periods(492343)            |  |
| <input type="checkbox"/> Marketing Management 49235W Release: 1 period(492341), 2 periods(492342), or 3 periods(492343) |  |
| <input type="checkbox"/> *Psychology  | <input type="checkbox"/> *Sociology                |
| <input type="checkbox"/> Theater I  | <input type="checkbox"/> Theater II                |
| <input type="checkbox"/> *Financial Literacy  | <input type="checkbox"/> *Parenting                |
| <input type="checkbox"/> *Criminal Law  |  |
| <input type="checkbox"/> *Travel Destinations   | <input type="checkbox"/> *International Travel     |
| <input type="checkbox"/> *Career Readiness  | <input type="checkbox"/> *African American History |

### AHS Campus Electives

- |   |   |
|---|---|
| <input type="checkbox"/> Girls Athletics I, II, III, IV     | <input type="checkbox"/> Cheer/Redline 9, 10, 11, 12    |
| <input type="checkbox"/> Boys Athletics I, II, III, IV      |   |
| <input type="checkbox"/> Band I, II, III, IV                |   |
| <input type="checkbox"/> *Intro Engineering Tech            | <input type="checkbox"/> *Fund.Tech Engineering         |
| <input type="checkbox"/> Intro to Engineering Design        |   |
| <input type="checkbox"/> Family and Consumer Science 493080 | <input type="checkbox"/> Survey of Agriculture Science  |
| <input type="checkbox"/> *Intro Med Prof 495340             | <input type="checkbox"/> CTE Human Anatomy & Physiology |

### TACTC Electives

- |   |  |
|---|--|
| <input type="checkbox"/> Aviation Mechanics 1, 2, OR 3          | <input type="checkbox"/> Criminal Justice 1, 2, OR 3 |
| <input type="checkbox"/> Cosmetology I or II                    | <input type="checkbox"/> Automotive 1, 2, OR 3       |
| <input type="checkbox"/> A/V Tech 1, 2, OR 3                    | <input type="checkbox"/> Welding 1, 2, OR 3          |
| <input type="checkbox"/> Graphic Communications 1, 2, OR 3      |  |
| <input type="checkbox"/> Family Consumer Science Elective _____ |  |
| <input type="checkbox"/> Medical Professions Elective _____     |  |

Other Arkansas High courses will be considered for approval upon request by parent and student. The counselor reserves the right to evaluate the student's transcript and place the student in courses to best meet his/her graduation requirements.

Parent Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Student Signature: \_\_\_\_\_

Date: \_\_\_\_\_ 05/01/15

**Programs of Study**  
**(What is required for a Completer Honor Cord)**  
**Career Readiness May Count As .5 Elective Credit for Any Program of Study**

**Agriculture, Food, and Natural Resources**

Agribusiness Systems	
Agriculture Business	(.5 credit)
Agriculture Marketing	(.5 credit)
Survey of Agriculture Systems (required)	(1 credit)
any additional Agriculture course	(1 credit)

**Arts, A/V Technology and Communications**

Graphic Communications	
Fundamentals (required)	(1 credit)
Intermediate (required)	(1 credit)
Advance (required)	(1 credit)
Audio/Video Technology and Film	
Fundamentals (required)	(1 credit)
Intermediate (required)	(1 credit)
Advance	(1 credit)

**Business, Management and Administration**

Banking	
Computerized Business Applications (required)	(1 credit)
Computerized Accounting 1	(1 credit)
Banking & Finance Principles	(.5 credit)
Banking & Finance Operations	(.5 credit)
Entrepreneurship	
Computerized Business Applications (required)	(1 credit)
Computerized Accounting 1	(1 credit)
Entrepreneurship I & II	(1 credit)
Administrative Services	
Computerized Business Applications (required)	(1 credit)
Computerized Accounting 1	(1 credit)

Office Management (1 credit)

**Health Science**

Medical Professional	
CTE Human Anatomy & Physiology (required)	(1 credit)
Introduction to Medical Professions	(.5 credit)
any additional Medical Professions	(1.5 credit)

**Hospitality and Tourism**

Hospitality	
Computerized Business Applications (required)	(1 credit)
Introduction to Travel and Tourism	(.5 credit)
Introduction to Hospitality	(.5 credit)
Travel Destinations	(.5 credit)
International Travel	(.5 credit)

**Human Services**

Family and Consumer Sciences Education	
Family & Consumer Sciences (required)	(1 credit)
any additional Family and Consumer Sciences	(2 credit)
Cosmetology	
Cosmetology 1 Class (required)	(1 credit)
Cosmetology I Lab (required)	(1 credit)
Cosmetology 2 (required)	(2 credit)

**Law, Public Safety, Corrections and Security**

## Criminal Justice

Introduction to Criminal Justice (required)	(1 credit)
Foundation of Law Enforcement (required)	(1 credit)
Crime Scene Investigation	(1 credit)

**Manufacturing**

## Industrial Equipment Maintenance

Industrial Equipment Maint. I Class (required)	(1 credit)
Industrial Equipment Maint. I Lab (required)	(1 credit)
Industrial Equipment Maint. II	(2 credit)

## Welding

Introductory Craft Skills	(1 credit)
Shielded Metal Arc	(1 credit)
Advanced Shielded Metal Arc	(1 credit)

**Marketing, Sales and Service**

## Marketing Technology

Computerized Business Applications (required)	(1 credit)
Marketing	(1 credit)
Marketing Job or Marketing Management	(1 credit)

**Transportation, Distribution and Logistics**

## Automotive Collision Repair

Painting & Refinishing and Lab (required)	(2 credit)
Structural Analysis and Repair and Lab	(2 credit)
Automotive Collision Repair and Lab	(2 credit)

## Aviation Mechanics

Aviation Mechanics (required)	(2 credit)
Aviation Elective	(2 credit)

Washington Academy Charter School Course Descriptions  
2016-2017

English and Language Arts

**Only one grade level course per year will be allowed.**

ENGLISH 9 – 410000

Grade 9 1 year/1 credit

Prerequisites: Successful completion of ENGLISH 8

Students will develop analytical reading, academic writing, critical thinking, and presentation skills. Course content includes nonfiction, short story, myth, poetry, drama, and the novel. Writing instruction will extend development in three modes as outlined by the College and Career Readiness Standards: narrative, expository, and argumentative. Students will develop skills in critical thinking, effective discourse, collaboration, reflection, and Common Core State Standards (CCSS) in Language. This course is supplemented with a digital resource curriculum in order to satisfy the digital learning course requirements by ADE.

ENGLISH 10 – 411000

Grade 10 1 year/1 credit

Prerequisites: Successful completion of ENGLISH 9

Students will analyze literature, conduct research, and synthesize meaning from historical, cultural, and intellectual contexts with varying themes. Analytical reading instruction will extend understanding of literary elements and language. Course content includes nonfiction, short story, poetry, and drama. Writing instruction will extend development in three modes as outlined by the College and Career Readiness Standards: narrative, expository, and argumentative. Students will develop skills in critical thinking, effective discourse, collaboration, reflection, and Common Core State Standards (CCSS) in Language. This course is supplemented with a digital resource curriculum in order to satisfy the digital learning course requirements by ADE.

ENGLISH 11 – 412000

Grade 11 1 year/1 credit

Prerequisites: Successful completion of ENGLISH 9 and ENGLISH 10

Students will analyze, synthesize, and research varying forms of American literature while reading essays, plays, poetry, short stories, novels, historical speeches, and historical documents. Analytical reading instruction will extend understanding of literary elements and language. Writing instruction will extend development in three modes as outlined by the College and Career Readiness Standards: narrative, expository, and argumentative. Students will develop skills in critical thinking, effective discourse, collaboration, reflection, and Common Core State Standards (CCSS) in Language. This course is supplemented with a digital resource curriculum in order to satisfy the digital learning course requirements by ADE.

ENGLISH 12 – 413000

Grade 12 1 year/1 credit

Prerequisites: Successful completion of ENGLISH 9, ENGLISH 10 and ENGLISH 11

Students will analyze, synthesize, and research complex literary work and nonfiction prose to formulate their own academic arguments. Analytical reading instruction will extend understanding of literary elements and language. Writing instruction will extend development in three modes as outlined by the College and Career Readiness Standards: narrative, expository, and argumentative. Students will develop skills in critical thinking, effective discourse, collaboration, reflection, and CCSS in Language. This course is supplemented with a digital resource curriculum in order to satisfy the digital learning course requirements by ADE.



ADVANCED PLACEMENT LITERATURE AND COMPOSITION 12 – 517040

Grade 12 1 year/1 credit

Prerequisites: ENGLISH 11 or AP LANGUAGE AND COMPOSITION 11

AP Literature and Composition 12 is a blended concurrent credit course for 3 semester hours of English Composition. Concurrent credit is available to students who have a qualifying score on the ACT or Compass Test to enroll with the participating college. This course will include a study of the novel, the essay, drama, and poetry from British and world literature. Aspects of writing such as sentence structure, style, mechanics, and usage, as well as organization and development of the essay, will be emphasized through student composition. Students will be prepared to take the College Board AP test in Literature and Composition and may receive college credit if scores meet college requirements (scores vary by college). For weighted credit to be awarded, students must take the AP Exam in the spring and be enrolled in the course for the entire year.

TRANSITIONAL ENGLISH 12 – 413010 English 12

Grade 12 1 year/1 credit

Prerequisite: English 11 or AP English Language & Composition Transitional English 12 is a two-semester English Language Arts course, designed to dramatically accelerate students' literacy skills essential for college and career readiness. The course is comprised of two Transitional Literacy Ready English Language Arts units and additional district-developed units of study that encompass English Language Arts standards for Grade 12. By ensuring students develop the essential reading and writing tasks needed to be successful; the goal of the units of study is to provide rigorous curricula that meet the demands of students for postsecondary course work common in college English classes. Transitional English 12 fulfills the 12th grade English credit requirement in the state of Arkansas.

ELA (English Language Arts) DRAMA – 416000

Grades 9-12 1 semester/.5 credit

Prerequisite: NONE

ELA Drama is a one-semester English elective course designed to introduce students to the study of dramatic literature. Through the study of written plays, students will become informed, perceptive, and appreciative audience members of plays from various cultures and time periods. To accomplish this goal, students will gain knowledge of dramatic elements by studying classical to contemporary plays. Students will examine and compare historical influences and contexts, universal themes in dramatic literature, and authorial treatment of tragic heroes from various periods. Students will demonstrate understanding of dramatic literature through creative oral and written interpretations and adaptations.

CRITICAL READING – 419110

Grades 9-12 1 year/1 credit

Prerequisite: NONE

Critical reading is a two semester course designed to dramatically accelerate reading growth by strengthening comprehension outcomes in high school grades. In a context of meaningful content, on-going assessment, and focused explicit instruction, students will evaluate literacy and informational texts and multicultural literature of diverse formats (e.g., print media, Web-based texts, literary and informational books and articles) and genres. In addition, students will engage in learning events tied to a variety of literary and informational texts with increasing complexity. Additionally, students will demonstrate competencies through purposeful applications based on individual and collective literacy goals. **Students in the 9<sup>th</sup> grade, who were not proficient or advanced on their ACT Aspire test in the 8<sup>th</sup> grade, will automatically be enrolled in the course.**

ORAL COMMUNICATIONS – 414000

Grades 9-12                      1 semester/.5credit (fall or spring)

Prerequisite: NONE

The one-semester Oral Communication course will provide students with an understanding of the dynamics of effective communication when speaking, listening, and responding. Students will express ideas and present information in a variety of communication tasks including small group discussion, formal and informal presentations, and oral interpretation of literature. Students will develop basic communication competencies including ethical practices in communication, recognition of communication barriers; and effective use of interpersonal communication, listening, verbal and nonverbal messages, and use of digital media. The one-semester Oral Communication course fulfills the ½ unit of Oral Communication required for graduation.

JOURNALISM I – 415000

Grades 9-12                      1 year/1 credit

Prerequisite: NONE

Journalism I is a two-semester course designed to introduce students to the world of media. Students in Journalism I will become analytical consumers of media and technology to enhance their communication skills. Writing, technology, and visual and electronic media are used as tools for learning as students create, clarify, critique, and produce effective communication. Students will learn journalistic guidelines for writing, design, and photography, which include objectivity, responsibility, and credibility.

JOURNALISM II – 415010

Grades 10-12                      1 year/1 credit

Prerequisite: Successful completion of JOURNALISM I and/or instructor approval.

JOURNALISM III is a two-semester course designed to provide students with an intermediate study of media applications above Journalism I. This course can serve as further preparation for advanced media applications. Students in Journalism II will become active participants in the world of media to enhance their communication skills. Students will progress in their academic knowledge through the roles of reporters, photographers, ad sales, and marketing team members. Writing, technology, and visual and electronic media are used as tools for learning as students create, assess, and produce. Students will learn to apply journalistic guidelines for writing and design, which include objectivity, responsibility, and credibility. Also can be counted as a credit for Yearbook.

## Language Arts: Foreign Language

The Language Arts Department recommends a foreign language as a minimum preparation for college; however, it is not required for high school graduation. The University of Arkansas and many other colleges require two years of foreign language for all students enrolled in the College of Arts and Sciences.

### Digital SPANISH I – 440000

Grades 9-12                      1 year/1 credit

Prerequisite: None

SPANISH I will provide basic instruction in pronunciation, aural comprehension, vocabulary, and grammar, and eventually lead to increased communicative and cultural proficiency in the target language (s). Target language cultures, traditions, and current events are introduced on the appropriate level through selected readings, audio/visual recording, and other authentic materials. Listening, speaking, writing, role-playing, and group activities are designed to instruct, reinforce, and connect language skills. Spanish I will include applications, problem solving, higher-order thinking skills, and performance-based and project-based assessments. This course is supplemented with a digital resource curriculum in order to satisfy the digital learning course requirements by ADE.

### Digital SPANISH II – 440020

Grades 9-12                      1 year/1 credit

Prerequisite: SPANISH I

Emphasis remains on spoken Spanish; study of specific grammar, structure-true translation, reading, vocabulary, and writing practice continues. Cultural discussions are based on life in Spanish speaking countries. Current events via newspapers and broadcasts are used weekly. This course is supplemented with a digital resource curriculum in order to satisfy the digital learning course requirements by ADE.

## Mathematics

SINCE MOST MATHEMATICS COURSES ARE SEQUENTIAL, IT IS REQUIRED THAT A STUDENT SUCCESSFULLY COMPLETE ANY PREREQUISITES BEFORE ENROLLING IN A COURSE.

The Arkansas Department of Education, along with 45 other states, has adopted the Common Core State Standards in Mathematics (CCSS-M). The high school standards specify the mathematics that all students study in order to be college and career ready. The new standards shift the requirement of teachers and students to a focused, coherent, and rigorous curriculum. The conceptual categories cross a number of traditional course boundaries. These include: Number and Quantities, Algebra, Functions, Modeling, Geometry, and Statistics and Probability.

Students will be required to take a summative assessment in Algebra I, Geometry, and Algebra II. The summative assessment results are used to determine a student's level of college and career readiness. The summative assessment is composed of two components, a performance based assessment, taken at approximately 75% of course completion, and an End-of-Year assessment (EOY) taken at approximately 90% of the course completion. Assessment results are permanently recorded on student high school transcripts.

### ALGEBRA 1A (First part Algebra I) - 430100

Grades 9-12 1 year/1 credit

Prerequisite: Math 8/Pre-Algebra

“The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. Because it is built on the middle grades standards, this is a more ambitious version of Algebra I than has generally been offered. The critical areas, called units, deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods of analyzing, solving, and using quadratic functions.

This course is recommended to students who were not successful in Math during 8<sup>th</sup> grade and/or in some instances, students who were not proficient or advanced on the ACT Aspire math grade 8 exam.

### ALGEBRA 1B (Second part Algebra I) – 430200

Grades 10-12 1 year/1 credit

Prerequisite: ALGEBRA A

The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. Because it is built on the middle grades standards, this is a more ambitious version of Algebra I than has generally been offered. The critical areas, called units, deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions.

### ALGEBRA I – 430000

Grade 9 1 year/1 credit

Prerequisite: Successful Completion of MATH 8/PRE-ALGEBRA

This course provides the foundational concepts for high school mathematics. Topics include the language of algebra, solving and graphing equations and inequalities (linear and quadratic), systems of equations, properties of exponents, radical expressions, data and graphs, polynomial operations, and factoring of polynomials. A graphing calculator is recommended.

### BRIDGE TO ALGEBRA II - 435000

Grades 9-12 1 year/1 credit

Prerequisite: Students must have successfully completed coursework for Algebra I (AMCF\*) or Algebra A&B (AMCF\*) but not Algebra II. Students may enroll concurrently with Geometry but not concurrently with Algebra II.

Bridge to Algebra 2 was developed with the intent to provide students who have completed Algebra 1, under the 2004, amended 2006, \*Arkansas Mathematics Curriculum Framework (AMCF), with the additional math foundation they need to be successful in a CCSS-M Algebra II course.

Each student learning expectation for Bridge to Algebra II is intended to:

- Reinforce linear concepts that were previously included in the Algebra I Course;
- Master quadratics and exponential concepts not included within the Arkansas Department of Education Algebra I Curriculum Framework through modeling functions and summarizing, representing, and interpreting data; or
- Introduce higher order concepts to prepare students for success in CCSS-M Algebra II.

### GEOMETRY – 431000 Recommended during 10<sup>th</sup> grade year

Grades 9-10 1 year/1 credit

Prerequisite: Successful completion of ALGEBRA I

This course introduces concepts visually, analytically, inductively, and deductively. Topics include the basic terms of geometry, properties of 2-dimensional shapes, properties of 3-dimensional shapes, properties of parallel and perpendicular lines, angles, circles, triangles, polygons, transformations, right-angle trigonometry, inductive and deductive reasoning. A graphing calculator is recommended.

### ALGEBRA II – 432000

Grades 9-12 1 year/1 credit

Prerequisite: Successful completion of ALGEBRA I

This course is a continuation of the study of algebraic concepts presented in Algebra I with a deeper insight into problem solving applications. Additional topics include the complex number system, logarithms and exponential functions, the graphing and applications of quadratic, polynomial, and rational functions, linear systems of equations and inequalities, and trigonometry. A graphing calculator is required.

### ALGEBRA III – 439070

Grades 9-12 1 year/1 credit

Prerequisites: Successful completion of ALGEBRA I, ALGEBRA II, AND GEOMETRY

This course will enhance the higher level thinking skills developed in Algebra 2 through a more in-depth study of those concepts and exploration of some pre-calculus concepts. Students in Algebra 3 will be challenged to increase understanding of algebraic, graphical, and numerical methods to analyze, translate and solve polynomial, rational, exponential, and logarithmic functions. Modeling real world situations is an important part of the course. Sequences and series will be used to represent and analyze real world problems and mathematical situations. Algebra 3 will also include a study of matrices and conics. Arkansas teachers are responsible for integrating appropriate technology and including the eight Standards for Mathematical Practice found in the CCSS-M.

### PRE-CALCULUS – 433000

Grades 9-12                      1 year/1 credit

Prerequisites: Successful completion of ALGEBRA 1, GEOMETRY, and ALGEBRA 2

Pre-Calculus will emphasize a study of trigonometric functions and identities as well as applications of right triangle trigonometry and circular functions. Students will use symbolic reasoning and analytical methods to represent mathematical situations, express generalizations, and study mathematical concepts and the relationships among them. Students will use functions and equations as tools for expressing generalizations. Teachers are responsible for including the eight Standards for Mathematical Practice found in the CCSS-M.

### COMPUTER SCIENCE AND MATHEMATICS – 439100

Grades 9-12                      1 year/1 credit

Prerequisite: Successful completion of ALGEBRA I (or Algebra A&B) and GEOMETRY (or Geometry A&B). In addition, students must have successfully completed Algebra II or be concurrently enrolled in Algebra II.

This course is designed to provide students with the opportunity to explore the uses of mathematics and computer programming as tools in creating effective solutions to complex problems. Students will develop and refine fundamentals skills of computer science within a mathematical context. Computer Science and mathematics may be counted as a fourth math credit course under Smart Core. Any reference to an algorithm or algorithms in this document includes both mathematics and computer science contexts. Throughout the course, students will use developmentally appropriate and accurate terminology when communicating about technology. Teachers are responsible for including the eight Standards for Mathematical Practice found in the CCSS-M. Computer Science and Mathematics does not require Arkansas Department of Education approval.

### ADVANCED PLACEMENT CALCULUS AB – 534040

Grades 11-12                      1 year/1 credit

Prerequisites: Successful completion of Pre AP Algebra II, OR Pre-calculus, OR AP Statistics

This course is the beginning course in differential and integral calculus. It is the equivalent of a college Calculus 1 course and will be taught as such. Students who wish to obtain credit or appropriate placement in participating colleges must score sufficiently high on the AP exam given in the spring. For weighted credit to be awarded, student must take the AP exam in the spring. A graphing calculator is required.

## Science

The science department strongly recommends that college-bound students consider taking at least biology, chemistry and physics in their high school curriculum. Students should also consider taking at least one or two additional science courses as electives. Students are required to take a minimum of three science credits; Physical Science, Biology or its equivalent, and one other credit.

### PHYSICAL SCIENCE – 423000

Grade 9 1 year/1 credit

Prerequisite: NONE

This course will include selected topics in problem solving, standards of measurements, energy and motion, and the nature of matter (solids, liquids and gases), kinds of substances, interactions of matter (solutions, chemical reactions, acids, bases, and salts), electricity and energy resources, and waves, light, and sound. Other topics include related and applicable careers, global connections, and practical applications in a technological society.

### BIOLOGY – 420000

Grade 10 1 year/1 credit

Prerequisite: Successful completion of PHYSICAL SCIENCE

This course is the study of living things with emphasis on their similarities, differences and life processes, and how they relate to their environment. Topics include introduction of life processes, methods of science matter, energy, the chemical basis of life, cell metabolism, evolution, reproduction, development, and environmental education. At the conclusion of this course, students will take an end of course exam.

### CHEMISTRY – 421000

Grades 10-12 1 year/1 credit

Prerequisite: Successful completion of PHYSICAL SCIENCE, ALGEBRA 1, and GEOMETRY

This course combines the core concepts of chemistry with activities that show students how they are surrounded by chemistry and how chemistry applies to their daily lives. A practical familiarity with chemicals, reactions, and techniques are developed by means of laboratory experiences.

### ENVIRONMENTAL SCIENCE – 424020

Grades 11-12 1 year/1 credit

Prerequisite: NONE

Environmental science should examine the physical and biological dynamics of Earth. Students should analyze the impact of human activities on the environment. Field studies, as well as the process of collecting and analyzing data, should be an integral part of the course. Instruction and assessment should include both appropriate technology and the safe use of laboratory equipment. Students should be engaged in hands-on laboratory experiences at least 20% of the instructional time. The course DOES NOT count as a **science** graduation credit for smart core.

### PHYSICS – 422000

Grades 11-12 1 year/1 credit

Prerequisite: Successful completion of PHYSICAL SCIENCE AND PRECALCULUS or currently taking PRECALCULUS

A thorough survey of general physics including topics such as vector, light and sound, electricity, magnetism, relativity, and nuclear physics. Guided individual and group lab activities will be required.

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE – 523030

Grades 11-12            1 year/1 credit

Prerequisite: Successful completion of BIOLOGY, ALGEBRA I, Successful Completion of OR currently enrolled in CHEMISTRY.

The goal of this course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. For weighted credit to be awarded, students must take the Advanced Placement exam in the spring.



## Social Studies

Graduation requires the following social studies credits: Civics, Economics, American History, and World History.

### CIVICS - 472000 /ECONOMICS- 474300

Grades 9-12                      Civics: 1 semester/ .5credit; Economics: 1 semester/.5 credit

Prerequisite: NONE

CIVICS is the study of the American government system and citizenship. This course is designed to give students an introduction to politics and government in the United States at the federal, state, and local levels. The course also explores American citizenship with its many rights, duties, and responsibilities. The purpose of this course is to give students a clear understanding of the principles of our democratic government and to motivate students to develop into responsible, participating citizens who strive to make a positive difference in the American society.

ECONOMICS is a one-semester course that emphasizes economic fundamentals, microeconomics, macroeconomics, and personal financial management. Students will explore the interrelationships among the roles played by consumers, producers, capital, land, and labor as well as the interrelationships among economic, political, and social lives. Additionally, students will examine the relationship between individual choices and the direct influence of these choices on occupational goals and future earnings potential. Economics stresses application, problem-solving, higher-order thinking skills, and use of classroom performance-based, open-ended assessments with rubrics.

### WORLD HISTORY – 471000

Grade 10                      1 year/1 credit

Prerequisite: NONE

The purpose of this course is to develop greater understanding of the world through the study of its history – the story of its people. It emphasizes the evolution of global processes and contacts in different types of human societies from the pre-historic period to the modern time. Besides the study of factual events in chronological order, this course also provides an opportunity for students to develop various skills required in the study of humanities, such as examining primary sources, thematic approach, and interpretation of data, among others.

### UNITED STATES HISTORY SINCE 1890 – 470000

Grades 9-12                      1 year/1 credit

Prerequisite: NONE

In grades 5-8, students receive a strong foundation in United States History from pre-colonialism through the Progressive Era, allowing United States History Since 1890 to focus in greater depth on the effects of changing culture, technology, world economy, and environment, as well as the impact of global conflicts on contemporary society in the United States. The desired outcome of this course is for students to develop an understanding of the cause-and-effect relationship between past and present events, recognize patterns of interactions, and understand the impact of events in the United States within an interconnected world. United States History since 1890 examines the emergence of the United States as a world power to the present. Students will examine the political, economic, geographic, social, and cultural development of the United States of America from the late nineteenth century into the twenty-first century. United States History Since 1890 references the eras and time periods from The National Center for History in the Schools.

### PSYCHOLOGY / SOCIOLOGY – 474400 / 474500

Grades 9.-12                      Psychology: 1 semester/.5 credit; Sociology: 1 semester/.5 credit

Prerequisite: NONE

Who am I? Discover the answer to this and many other questions in the areas of personality, stress, communication, intelligence, motivation, psychological disorder, and love. Get to know yourself! (Fall) Study group behavior by investigating socialization, minorities' stratification, poverty, culture, deviance, and the future. (Spring)

ADVANCED PLACEMENT UNITED STATES HISTORY – 570020

Grades 11-12            1 year/1 credit

Prerequisite: NONE

AP U.S. History is a challenging course that is meant to be the equivalent of a freshman college course and can earn students college credit. It is a two (2) semester survey of American History from the age of exploration and discovery to the present. Solid reading and writing skills, along with a willingness to devote considerable time to homework and study, are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills, essay writing, interpretation of original documents, and historiography. A short research paper linking American literature and history is required. A comprehensive college textbook is used for this course. For weighted credit to be awarded, students must take the AP exam in the spring and be enrolled in the course for the entire year.

AFRICAN AMERICAN HISTORY – 474700

Grades 11-12            1 semester/.5 credit

Prerequisite: NONE

AFRICAN AMERICAN HISTORY examines the contributions African Americans have made to the history of the United States. This course is designed to assist students in understanding issues and events from multiple perspectives. This course develops an understanding of the historical roots of African American culture, especially as it pertains to social, economic, and political interactions within the broader context of United States history. It requires an analysis of important ideas, social and cultural values, beliefs, and traditions. Knowledge of past achievements provides citizens of the 21<sup>st</sup> century with a broader context within which to address the many issues facing the United States.

Fine Arts

**INSTRUMENTAL MUSIC COURSE DESCRIPTIONS:** To enroll in any instrumental music course as described below, the director must be consulted first. The band performs at football games, contests, parades, concerts, etc. Participation and quality of marching and playing are stressed. **Attendance at all performances and after school rehearsals is required. WACS students will attend course at Arkansas High School.**

Band is a two-semester course designed for traditional and emerging ensembles. Band students will demonstrate an ability to apply music fundamentals and instrumental techniques in the production, performance, analysis, and critique of instrumental music performance. Students are expected to apply sight-reading skills, improvisational skills, and performance techniques in solo, small group, and large group settings. Student will critique music performances and deeply reflect upon the impact of instrumental music on society as well as societal influences on instrumental music. Students will regularly perform in a variety of settings and will demonstrate successful completion of student learning expectations. Band I, Band II, Band III, or Band IV will satisfy the one-half credit fine arts requirement for graduation. The Band performs at football games, contest, parades, concerts, etc. Participation and quality of marching and playing are stressed. ATTENDANCE AT ALL PERFORMANCES AND AFTER SCHOOL REHEARSALS IS REQUIRED. ALL STUDENTS MUST ADHERE TO THE BAND HANDBOOK.

BAND I - 451000

Grades 9-12            1 year/1 credit

Prerequisite: NONE

BAND II - 451040

Grades 9-12            1 year/1 credit

Prerequisite: Successful completion of BAND I and/or instructor's approval through audition.

BAND III - 451050

Grades 9-12 1 year/1 credit

Prerequisite: Successful completion of BAND II and/or instructor's approval through audition.

BAND IV - 451060

Grades 9-12 1 year/1 credit

Prerequisite: Successful completion of BAND III and/or instructor's approval through audition.

VOCAL MUSIC I is two semester courses designed for traditional and emerging ensembles. Vocal music students will demonstrate an ability to apply music fundamentals and vocal techniques in the production, performance, analysis, and critique of vocal music performance. Students are expected to apply sight-reading skills, improvisational skills, and performance techniques in solo, small group, and large group settings. Vocal music students will critique vocal music performances and deeply reflect upon the impact of vocal music on society as well as societal influences on vocal music. Students will regularly perform vocally in a variety of settings and will demonstrate successful completion of vocal music student learning expectations.

VOCAL MUSIC I - 452000

Grades 9-12 1 year/ 1credit

Prerequisite: NONE

VISUAL ART I-IV is two semester courses designed to teach students to apply the elements of art and the principles of design. Students are expected to use a variety of media, techniques, processes, and tools to create original artwork that demonstrates understanding of aesthetic concerns and complex compositions. These basic concepts are introduced at the Visual Art I level. As students' progress through each course, they will develop, expand, and increase their real life application of problem solving through artistic maturation. Students will create, critique, reflect, and make connections to art. Students will exhibit original artwork and develop portfolios that reflect their personal growth. Visual Art I will satisfy the one-half credit fine arts requirement for graduation. The student will purchase art materials. The minimum for Visual Art I is \$40. The minimum for Visual Art II-IV is \$60 per course.

VISUAL ART I - 450000

Grades 9-12 1 year/1 credit

Prerequisite: NONE

VISUAL ART II - 450030

Grades 10-12 1 year/1 credit

Prerequisite: Successful completion of Art I

THEATRE I is a two-semester course in which students learn and demonstrate mastery of theatre academic and performance skills. THEATRE II and III are two-semester courses which expand the knowledge and performance base of THEATRE I. At the THEATRE I level, students will explore theatre fundamentals, analyze and interpret scripts, evaluate artistic work, and use those evaluations to deepen the meaning of their work. In THEATRE II and III students will focus on the practical application of skills developed in THEATRE I. Students will take on more complex projects and may begin to develop directorial skills. Ultimately, students will make artistic decisions using multiple forms of inspiration, particularly focusing on social, cultural, and historical context. THEATRE I contains an introduction to stagecraft skills. THEATRE II and III do not develop these stagecraft skills, but the teacher may choose to draw student learning expectations from the Stagecraft I-III Curriculum Framework. THEATRE I will fulfill the one-half credit fine arts required for graduation

THEATRE PERFORMANCE I – 459100

Grades 9-12                      1 year/1 credit

Prerequisite: NONE

THEATRE PERFORMANCE II – 459110

Grades 10-12                    1 year/ 1credit

Prerequisite: Successful completion of THEATRE PERFORMANCE I

<h2>Physical Education/Health/Athletics</h2>
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PERSONAL FITNESS FOR LIFE - 485010

Grades 9-12                      1 semester/.5 credit (fall or spring)

Prerequisite: NONE

PERSONAL FITNESS FOR LIFE is a one-semester course that includes a planned curriculum that provides content and learning experiences in motor skills and movement concepts as they apply to physical activity, health-related physical fitness, and lifetime sports and recreation. This course encompasses the Personal Fitness for Life Content Standards defined by the Arkansas Physical Education and Health Curriculum Framework. This course is a prerequisite for Recreational Sports and Activities.

PHYSICAL EDUCATION & LEISURE - 485000

Grades 9-12                      1 year/1 credit

Prerequisite: NONE

PHYSICAL EDUCATION & LEISURE is a two-semester course that includes a planned curriculum which provides content and learning experiences in basic motor skills, movement patterns, and movement concepts as they apply to physical activity and health-related physical fitness, as well as lifetime sports and recreation. This course encompasses the Physical Education and Leisure Content Standards defined by the Arkansas Physical Education and Health Curriculum Framework.

### HEALTH/CPR&AED- 480000

Grades 9-12                      1 semester/.5 credit (fall or spring)

Prerequisite: NONE

HEALTH AND WELLNESS is a one-semester course that should provide content and learning experiences in nutrition, disease, prevention, human growth and development, healthy life skills, personal health and safety, community health and promotion, decision-making skills, interpersonal communication skills, and information regarding the use and abuse of medications, alcohol, tobacco, and other drugs. The course content should focus on personal health and wellness and the practice of health-enhancing behaviors to avoid or reduce health risks. Students will be trained and participate in the psychomotor skills needed to perform hand-only cardiopulmonary resuscitation (CPR) and the use of an automated external defibrillator (AED) as required for graduation. This course encompasses the Health and Wellness Content Standards defined by the Arkansas Physical Education and Health Curriculum Framework.

**The Athletic Department curriculum is designed to give students the confidence and motivation to improve and maintain an active and healthy mind, body, and lifestyle; to pursue the challenges of new physical activities throughout their lives.**

### SPORTS

- Baseball – Male
- Basketball – Female / Male
- Cheerleading
- Cross Country
- Redline
- Football – Off Season
- Golf
- Soccer – Female / Male
- Softball - Female
- Tennis – Female / Male
- Track – Female / Male
- Bowling – Female / Male

PERSONAL FITNESS 9 - 485019/RECREATIONAL SPORT ACTIVITY - 485029

**Grade 9 only** 1 year/1 credit

Prerequisite: Written coaches' approval, tryout, meet eligibility requirements set by the Arkansas Activities Association (AAA).

The knowledge and skills the students learn in this course will be used by demonstrating them during competitions in a variety of sports and activities. The curriculum is designed to help the students acquire the knowledge and skills for movement that provide the foundation for enjoyment and continued social development through physical activity, and access to a physically active lifestyle. This course will motivate students to strive for a lifetime of personal fitness with an emphasis on the health-related components of physical fitness

The following courses are offered at Arkansas High School only.

FOOTBALL, BASKETBALL, TRACK - 999810

Grades 10-12 1 year

Prerequisite: Written coaches' approval, tryout, physical, meet eligibility requirements set by the Arkansas Activities Association (AAA).

The knowledge and skills the students learn in this course will be used by demonstrating them during competitions in a variety of sports and activities. This is a highly competitive class in which the student is provided the opportunities to make appropriate choices in their pursuit of positive, enjoyable, and life-long recreational and fitness activities. **This course will be a free elective credit, but this credit will not be one of the 22 credits mandated by the Arkansas Department of Education.**

OTHER ATHLETICS - 999820

Grades 10-12 1 year

Prerequisite: Written coaches' approval, tryout, physical, meet eligibility requirements set by the Arkansas Activities Association (AAA).

The knowledge and skills the students learn in this course will be used by demonstrating them during competitions in a variety of sports and activities. This is a highly competitive class in which the student is provided the opportunities to make appropriate choices in their pursuit of positive, enjoyable, and life-long recreational and fitness activities. **This course will be a free elective credit, but this credit will not be one of the 22 credits mandated by the Arkansas Department of Education.**

STRENGTH & CONDITIONING –585010

Grade 10 1 year/1 credit

Prerequisite: PE & RECREATIONAL SPORTS AND INSTRUCTOR APPROVAL

STRENGTH & CONDITIONING is a strength and cardiovascular training class. The course is designed for students to gain knowledge of rep-out, pyramid, circuit training programs, and exercises that target specific muscle groups. Students will be required to participate physically in the exercises and must learn the muscle groups associated with each exercise.

FITNESS & WEIGHT CONTROL – PENDING ADE APPROVAL

Grades 11 1 year/1 credit

Prerequisite: STRENGTH & CONDITIONING and written coaches' approval, tryout, physical, meet eligibility requirements set by the Arkansas Activities Association (AAA).

This course is a cardiovascular conditional program designed to improve muscle tone and maintain a healthy weight. Activities include weight training, running, walking, yoga, Pilates, and cardio kickboxing. Food and/or food products which are desirable for healthy dietary habits will be examined. Students will research nutritional choices, stress, various diets, and weight loss programs.

CHEER & REDLINE 9-485019 & 485029

Grades 9 1 year/1 credit

Prerequisite: A judged tryout, physical, meet eligibility requirements set by the Arkansas Activities Association (AAA).

The knowledge and skills the students learn in this course will be used by demonstrating them during competitions, practice, and performances. This is a highly competitive class in which the student is provided the opportunities to make choices in their pursuit of positive, enjoyable and life-long recreational and fitness activities. Students will acquire knowledge and skills for movement that provide the foundation for enjoyment and continued social development through physical activity, and access to a physically active lifestyle. This course will count toward the half credit (.5) physical education requirement for graduation.

CHEER 10-585010

Grade 10 1 year/1 credit

Prerequisite: A judged tryout, physical, and meet eligibility requirements set by the Arkansas Activities Association (AAA).

CHEER 11-Pending ADE Approval

Grade 11 1 year/1 credit

Prerequisite: A judged tryout, physical and meet eligibility requirements set by the Arkansas Activities Association (AAA).

CHEER 12-999850

Grade 12 1 year/No credit

Prerequisite: A judged tryout, physical and meet eligibility requirements set by the Arkansas Activities Association (AAA). **This course will not count toward a graduation credit.**

REDLINE Year 2- 459200

Grades 10 1 year/1 credit

Prerequisite: A judged tryout, physical, and meet eligibility requirements set by the Arkansas Activities Association (AAA).

Students will demonstrate an ability to apply dance fundamentals and dance techniques in the production, performance, analysis, and critique of dance performance. Students are expected to perform in solo, small group, and large group settings. Students will critique performances and deeply reflect upon the impact of dance on cultural as well as cultural influences on dance. REDLINE Year 2 counts as a fine arts or career focus credit requirement for graduation.

REDLINE Year 3- 459210

Grade 11 1 year/1 credit

Prerequisite: A judged tryout, physical and meet eligibility requirements set by the Arkansas Activities Association (AAA).

Students will deepen and advance their skills and dance techniques in the production, performance, analysis, and critique of dance performance. Students are expected to perform in solo, small group, and large group settings. Students will critique performances and deeply reflect upon the impact of dance on culture as well as cultural influences on dance. REDLINE Year 3 counts as a fine arts or career focus credit requirement for graduation.

REDLINE Year 4- 459220

Grade 12 1 year/1 credit

Prerequisite: A judged tryout, physical, and meet eligibility requirements set by the Arkansas Activities Association (AAA).

Students will advance their skills and dance techniques in the production, performance, analysis, and critique of dance performance. Students are expected to perform in solo, small group, and large group settings. Students will critique performance and deeply reflect upon the impact of dance on culture as well as cultural influences on dance. REDLINE Year 4 counts as a fine arts or career focus credit requirement for graduation.

## Career and Technical Education Courses

Students who enroll in Career and Technical Education courses should strive to become a **Completer in a Program of Study**. A **completer** is a student who completes a minimum of 3 units of credit, including the core required courses, in a CTE program of study and graduates from high school. Students who complete a program of study will receive a Completer Honor Cord at graduation.

### BUSINESS

#### COMPUTERIZED BUSINESS APPLICATIONS - 492120

Grades 9-12 1 year/1 credit

Prerequisite: Keyboarding

Computerized Business Applications is a two-semester course designed to prepare students with an introduction to business applications that are necessary to live and work in a technological society. Emphasis is given to hardware, concepts, and business uses of applications. The business applications covered are word processing, database, spreadsheet, telecommunications, presentation, and Web page design (Microsoft Office Suites). Students are also strongly encouraged to join DECA: An Association for Marketing Students. Core course for Marketing and Hospitality programs of study.

### CAREER READINESS

#### CAREER READINESS - 493900

Grades 9-12 1 semester/.5 credit

Career Readiness is designed to provide the student with the necessary skills to evaluate who they are, what they need in a career, research college and career information, refine their choices through a decision-making process and master the skills most needed by 21st Century employers. Career Readiness is a one-semester .5 credit course that can count toward completer status for any Career and Technical Education Program of Study.

### MARKETING

#### MARKETING – 492330

Grades 11-12 1 year/1 credit

Prerequisite: NONE

Marketing is a two-semester course designed to provide students with the fundamental concepts, principles, skills and attitudes common to the field of marketing. Instruction will focus on market types, consumer types, planning, promotion, buying, pricing, distribution, selling, trends and careers. This course will prepare students for careers in the fields of Business, Management & Administration; Finance; Hospitality & Tourism; and Marketing, Sales & Service. Students are encouraged to complete Computerized Business Applications in order to receive a Career and Technical Education Completer honor cord. Students are also strongly encouraged to join DECA: An Association for Marketing Students.



MARKETING MANAGEMENT – 492350

Grades 11-12                      1 year/1 credit

Prerequisite: Successful completion of MARKETING, Instructor’s continued approval, and approved training site

Marketing Management is a two-semester course designed to develop decision-making skills through the application of marketing and management principles. Competencies will be accomplished by utilizing various instructional methods, resources, and direct involvement with marketing businesses. The course will focus on organization, finance, risks, credit, technology, and social aspects. Students are also strongly encouraged to join DECA: An Association for Marketing Students.

MARKETING JOB/WORK-BASED LEARNING – 492340

Grades 11-12                      1 year/1 credit per each job hour released

Prerequisite: Must be enrolled in MARKETING or MARKETING MANAGEMENT

All students will receive work-based learning credit for each 1, 2, or 3 periods released. This course requires the APPROVAL OF THE INSTRUCTOR. **Acceptance into the program and employment at an approved training site must be obtained prior to school starting.**

**Marketing Completer Checklist**

- ┆ Computer Business Application (Required).....1 credit
- ┆ Marketing..... 1 credit
- ┆ Marketing Job or Marketing Management.....1 credit
- ┆ Career Readiness (if needed).....5 credit



## AGRICULTURE

The national organization, FFA, is an integral part of the instructional program in vocational agriculture and an extension of the classroom instruction. All agriculture students are encouraged to join FFA by paying yearly dues of \$20 (this amount covers local, state, and national dues). Additionally, all students taking agriculture courses should complete a record book detailing their supervised agricultural experience for the year.

### SURVEY OF AGRICULTURAL SYSTEMS - 491150

Grades 9-12                      1 year/1 credit

Prerequisite: NONE

SURVEY OF AGRICULTURAL SYSTEMS is a foundation course for all agricultural programs of study. Topics covered include general agriculture, FFA, leadership, supervised agricultural experience, animal systems, plant systems, agribusiness systems, food products & processing, biotechnology, natural resources systems, environmental service systems, and power, structural and technical systems.

### ANIMAL SCIENCE I (fall semester) – 491180/ FOOD SCIENCE TECHNOLOGY (spring semester) - 491250

Grades 10-12                      1 semester/.5 credit

Prerequisite: SURVEY OF AGRICULTURAL SYSTEMS

ANIMAL SCIENCE I is structured to enable all students to have an overview of the Animal Industry. Topics covered in Animal Science I include the Animal Industry, Animal Handling and Safety, Animal Anatomy/Physiology, and Animal Nutrition. Opportunities are provided for students to participate in FFA and supervised experience activities.

FOOD SCIENCE TECHNOLOGY examines the food industry in production, manufacturing/processing, distribution, and marketing. It also explores careers, consumer consumption, food safety, global commodities, and food companies.

### ANIMAL SCIENCE II (spring semester) – 491200

Grade 10-12                      1 semester                      ½ credit

Prerequisite: ANIMAL SCIENCE I

Topics covered in Animal Science II include animal reproduction, genetics, animal health, animal products, and marketing. Opportunities are provided for students to participate in FFA and supervised experience activities.

### ADVANCED ANIMAL SCIENCE - 491010

Grades 10-12                      1 semester                      ½ credit

Prerequisites: SURVEY OF AGRICULTURAL SYSTEMS & ANIMAL SCIENCE I AND II

This course is designed at the local level for specialized instruction as determined by the local advisory committee and administration in a specific area of animal science

### AGRICULTURAL BUSINESS (fall semester) - 491030/ AGRICULTURAL MARKETING (spring semester) -491060

Grades 10-12                      Agricultural Business - 1 semester/.5 credit; Agricultural Marketing – 1 semester/.5 credit

Prerequisite: SURVEY OF AGRICULTURAL SYSTEMS

AGRICULTURAL BUSINESS provides students with a basis for making effective decision, setting goals, assessing and solving problems, evaluating the management of resources, and gaining skills useful in everyday life. AGRICULTURAL MARKETING covers the principles of consumer demand and economic system fundamentals, functions and methods of marketing agricultural commodities, agricultural industry inputs, legal and industry responsibilities, international marketing, and promotional planning and sales in agriculture

EQUINE SCIENCE- 491420

Grades 11-12                      1 semester                      ½ credit

Prerequisite: SURVEY OF AGRICULTURAL SYSTEMS

EQUINE SCIENCE will introduce students to a broad spectrum of topics in Equine Science and establish a solid foundation of general horse knowledge. The course will begin with discussions of the development, domestication, and use of the horse; as well as the economic impact and future trends of the horse industry.

VETERINARY SCIENCE- 491460

Grades 11-12                      1 year/1 credit

Prerequisite: SURVEY OF AGRICULTURAL SYSTEMS

This course will provide the student with a sound platform to master the knowledge and skills necessary to become a veterinary assistant. It will also prepare the student to pursue a rewarding career as part of the professional veterinarian team. It will also equip the next generation of veterinarians and veterinarian assistants with the new technological tools that reinforce our industries expectations. Finally, it provided academic knowledge, higher order reasoning and problem solving skills, work attitudes, general employability skills, technical skills and occupational skills.

**AGRICULTURE Completer Checklist**

**Agribusiness Systems (Required Core)**

- ┆ Survey of Agriculture Systems (Required)..... 1 credit
- ┆ Agricultural Marketing..... 0.5 credit
- ┆ Agriculture Elective..... 1 credit

**Electives**

- Agricultural Business..... 0.5 credit
- Animal Science (0.5)/ Food Science (0.5) = 1 credit

## PRE-ENGINEERING

### INTRODUCTION TO ENGINEERING DESIGN (IED) – 495480

Grades 9-12                      1 year/1 credit

Prerequisite: NONE

Introduction to Engineering Design is an introduction course that develops students' problem-solving skills, with emphasis placed on the concept of developing a 3-D model or solid rendering of an object. Students focus on the application of visualization processes and tools provided by modern, state-of-the-art computer hardware and software. The course will emphasize the design development process of a product and how a model of that product is produced, analyzed, and evaluated, using a computer-aided design system. Various design applications will be explored with discussion of possible career opportunities.

### PRINCIPLES OF ENGINEERING (POE) – 495490

Grades 9-12                      1 year/1 credit

Prerequisite: INTRODUCTION TO ENGINEERING DESIGN

Principles to Engineering are a broad-based survey course designed to help students understand the field of engineering and engineering technology and its career possibilities. Students will develop engineering problem-solving skills that are involved in postsecondary education programs and engineering careers. They will explore various engineering systems and manufacturing processes. They will also learn how engineers address concerns about the social and political consequences of technological change. The main purpose of this course is to experience through theory and hand-on, problem-solving activities what engineering is all about and to answer the question, "Is a career in engineering or engineering technology for me?"

## **ENGINEERING AND TECHNOLOGY EDUCATION (ETE)**

### INTRODUCTION TO ENGINEERING AND TECHNOLOGY (ETE 1) – 494010

Grade 9                      1 semester/.5 credit

Fall semester – 494010, Prerequisite – NONE

This one semester course is designed to provide students with an introduction and comprehensive overview of the fields of information and communication, construction, manufacturing, energy, power, and transportation technological problems. Emphasis will be placed on the exploration of principles and concepts as well as the application of technological concepts and practices through the completion of experiments, learning exercises, field trips, writing activities, and design projects which include the following: CO2 race cars, bridge building, laser communication, robotics (using Legos and computer software), Pneumatics (air Legos), rocket construction, parachute building and testing, a manufactured project and an electronic technology portfolio.

### FUNDAMENTALS OF ENGINEERING AND TECHNOLOGY (ETE 2) – 494020

Grade 9                      1 semester/.5 credit

Prerequisite: 494010 ETE 1

This one semester course is designed to provide students with a more in depth look at the fields of information and communication, construction, manufacturing, energy, power, and transportation technologies. Students will also further their understanding of technology and the use of the engineering design loop to solve technological problems. Emphasis will be place on the further exploration of principles and concepts as well as the continued application of technological and engineering concepts and practices through the completion of experiments, learning exercises, field trips, writing activities, and design projects which include the following: CO2 race cars, bridge building, laser communication, robotics (using Legos and computer software), Pneumatics (air Legos), rocket construction, parachute building and testing, a manufactured project and an electronic technology portfolio.

## **FAMILY AND CONSUMER SCIENCE**

This course of study emphasizes the development of competencies related to the Family, Career, and Community Leaders of America. These competencies provide a foundation for the variety of careers available to students in this career focus. Upon completion of a selected course of study, students will be able to make informed choices regarding consumer education, food and nutrition, relationships, housing, and textiles. These courses provide skills for careers in Hospitality and Tourism and Human Services career clusters.

### **FAMILY AND CONSUMER SCIENCE - 493080**

Grades 9-12                      1 year/1 credit

Prerequisite: NONE

Family and Consumer Science is designed to provide students with basic information and skills needed to function effectively within the family and within a changing, complex society. Emphasis is given to the development of competencies related to Family, Career, and Community Leaders of America; individual and family relationships; housing and interior design; wardrobe planning and selection; garment care and construction; the physical, emotional, social and intellectual development of children; nutrition and food selection; healthy lifestyle choices; meal planning, preparation and service; home management; money management; the application of current technology in the home and workplace. Upon completion of this course, the student should have developed life skills that promote a positive influence on the quality of life.

### **CLOTHING MANAGEMENT I (FALL SEMESTER) - 493030 / CLOTHING MANAGEMENT II (SPRING SEMESTER) – 493060**

Grades 9-12                      Clothing Management I – 1 semester/.5 credit; Clothing Management II – 1 semester/.5 credit

Prerequisite: NONE (Clothing Management I must be taken before Clothing Management II)

Experience in the CLOTHING MANAGEMENT courses are designed to assist students in developing skills necessary for decision making as a clothing consumer and for understanding the role of the clothing and textile industry in the economy. Experiences in the CLOTHING MANAGEMENT II course are designed to assist students in further developing skills necessary for the management and construction of individual and/or family garments and projects. Basic construction techniques will be integrated throughout the course in various projects.

### **HOUSE & INTERIOR DESIGN (FALL SEMESTER) – 493140**

Grades 9-12                      1 semester/.5credit

Prerequisite: NONE

HOUSING & INTERIOR DESIGN focuses on personal and family housing needs, options for meeting those needs, and the impact of the housing industry on the economy. Attention is given to student competencies addressing housing needs, trends, finance, construction and artful principles as applied to housing.

### **CHILD DEVELOPMENT (FALL SEMESTER) – 493020**

Grades 9-12                      1 year/.5 credit

Prerequisite: NONE

CHILD DEVELOPMENT is directed toward helping students understand the challenges and responsibilities of guiding physical, social, emotional, and intellectual development of children. Understanding children, their needs, and the forces that influence them helps the adolescent gain self-understanding. Emphasis is placed on preparation for parenthood, prenatal and postnatal care, childbirth, and health and safety of children. Experiences in the parenting course are designed to assist students in developing an understanding of the parenting process and of parenting skills. Competencies developed in this course will be useful to anyone who lives with, associates with, or works with children.

DIGITAL PARENTING – 493210

Grades 9-12 1 semester/.5 credit

Prerequisite: NONE

Experiences in the PARENTING course are designed to assist students in developing an understanding of the parenting process and of parenting skills. Competencies developed in this course will be useful to anyone who lives, associates with, or works with children.

FOOD SAFETY (FALL SEMESTER) 493070

Grades 10-12 1 semester/.5 credit

Prerequisite: NONE

Experiences in the FOOD SAFETY course focus on the development of essential food safety practices needed to select, receive, store, prepare, and serve food. Students will learn to create and implement an environment of food safety procedures based on the latest FDA Food code and local regulations. Skills learned are applicable to the Arkansas Safe Food Handler Certification as well as the National Restaurant Association ServSafe Certification.

FOOD & NUTRITION (SPRING SEMESTER) – 493110

Grades 9-12 1 semester/.5 credit

Prerequisite: NONE

Experiences in the FOOD & NUTRITION course focus on the development of skills needed to select, prepare and serve food which meets nutritional needs of individuals and families.

CHEMISTRY OF FOOD\*\* (FALL OR SPRING SEMESTER) – 493130

Grades 10-12 1 semester/.5 credit

Prerequisite: - \*\*ALGEBRA 1 and/or CHEMISTRY

CHEMISTRY OF FOOD focuses on the scientific method to study the various relationships between food science, nutrition, and food preparation. Laboratory skills in measuring, recording, and analyzing data are used to explore these relationships. Experimental methods are employed to analyze food mixture, food microbiology, food preservations, and complex food systems.

NUTRITION & WELLNESS (FALL OR SPRING SEMESTER) – 493200

Grades 9-12 1 semester/.5 credit

Prerequisite: NONE

NUTRITION & WELLNESS enables students to analyze the interaction of nutrition, foods, and fitness for overall wellness of individuals and families throughout the lifespan. In this course students will develop nutrition and fitness habits to make wise decisions regarding healthy living and prevention of disease through these practices.

HUMAN RELATIONS (FALL SEMESTER) - 493150

Grades 9-12 1 semester/.5 credit

Prerequisite: NONE

HUMAN RELATIONS focuses on the development of skills needed in order to build and maintain successful relationships in the home, community, and workplace. Emphasis is given to the development of competencies related to personality development, decision-making, communication, relationships outside the family, and careers in the field of human relations.



**FINANCIAL LITERACY (SPRING SEMESTER) – 491990**

Grades 9-12

1 semester/.5 credit

Prerequisite: NONE

FINANCIAL LITERACY is a one-semester course designed to increase financial literacy and prepare students to successfully manage financial resources. This course also focuses on the individual's role and financial responsibilities as a student, citizen, consumer, and active participant in the business world. Emphasis is also placed on activities and competitions within career technical student organizations (i.e. FBLA, FCCLA, DECA) Completer for FACS & Business.

**Family & Consumer Science Completer Checklist**

**Family & Consumer Sciences Education (Required Core)**

- ┆ Family & Consumer Sciences (Required)..... 1 credit
- ┆ Family & Consumer Sciences Elective.....1 credit
- ┆ Family & Consumer Sciences Elective.....1 credit

**Electives**

- Housing & Interior Design (.5 credit)
- Food Nutrition (0.5)/Personal & Family Finance (.5) = 1 credit
- Clothing Management I (.5 credit)/Clothing Management II (.5 credit) = 1 credit
  
- Child Development (.5 credit)/Parenting (.5 credit) = 1 credit
- Food Safety (.5 credit) / Food & Nutrition (.5) = 1 credit
- Nutrition & Wellness (.5 credit)
- Chemistry of Food (.5 credit)
- Financial Literacy (.5 credit)
- Human Relations (.5 credit)

## MEDICAL PROFESSIONS

**Medical Professions Education introduces students to various medical careers through mentoring, guest speakers and job shadowing experiences. Students will explore the opportunities in the medical field through computerized instruction, lab activities, and basic knowledge of health career history and background knowledge.**

### CTE HUMAN ANATOMY & PHYSIOLOGY - 495300

Grades 9-12                      1 year/1 credit

Prerequisite: NONE

This course focuses on the anatomical and physiological systems of the body as well as diseases of those systems and is part of the Medical Professions/Health Sciences Program of Study. Any student who completes Anatomy & Physiology in the science department does not have to duplicate this course. Completion of one of these anatomy courses is required to be considered a completer in the Medical Professions Program of Study. Membership in the Health Occupations Students of America Club (HOSA) is encouraged.

**This course DOES NOT count as a science credit.**

### INTRODUCTION TO MEDICAL PROFESSIONS – (FALL SEMESTER) - 495340

Grades 9-12                      1 semester/.5 credit

Prerequisite: NONE

This course is designed to provide a general overview of the many health-related occupations and special concerns of the health care worker. Careers in medical professions and the health sciences as well as an overview of patient care are included in this course. The course will be paired with Medical Terminology. Membership in the Health Occupations Students of American Club (HOSA) is encouraged.

### MEDICAL TERMINOLOGY – (SPRING SEMESTER) – 495360

Grades 9-12                      1 semester/.5 credit

Prerequisite: NONE

This course assists students in developing the language used for communication in the health care profession. Areas of study include fundamental word structures, terminology for diagnostic and imaging procedures, and general medical terms for the body systems. This course will be paired with Introduction of Medical Professions. Membership in the Health Occupations Students of American Club (HOSA) is encouraged.

### ABNORMAL PSYCHOLOGY – 495370

Grades 9-12                      1 semester/.5 credit

Prerequisite: Intro to Medical Professions

This course provides a basic survey of maladaptive human behavior. Major psychological disorders, their causes, symptom patterns, cultural influences, and relevant treatment approaches are discussed. Included topics are: historical medical background, perspectives of treatment of the mentally ill, fundamental definitions; causes of anxiety disorders, disorders of mood, including depression and bipolar disorder, personality disorders, disorders of thought, including schizophrenia, substance related disorders and domestic violence. Legal, ethical, and social issues relating to the medical professional's role in treating psychological disorders is explored.

MEDICAL PROCEDURES – (SPRING SEMESTER) – 495330

Grades 9-12 1 semester/.5 credit

Prerequisite: NONE

This course is designed to help students develop specific and general skills needed by the health science technology professional. Areas of topic include safety, infection control, vital signs, CPR/FIRST AID, medical math, medical charting, and abbreviations, and medical abbreviations. Membership in the Health Occupations Students of America Club (HOSA) is encouraged.

CERTIFIED NURSING ASSISTANT – 495310

Grades 11-12 1 year/ 1 credit

Prerequisite: INTRODUCTION TO MEDICAL PROFESSIONS, ANATOMY & PHYSIOLOGY

This course follows the requirements and guidelines set forth by the Department of Health and Human Services, division of the Office of Long Term Care. Students develop patient care skills such as bathing, dressing, toileting and feeding. Instruction is done through theory, classroom, lab and 16 hours of clinical training in a long term care facility. Upon completion of the course a certification exam will be offered to eligible students through the Office of Long Term Care. Good attendance is absolutely necessary. Professionalism is a must.

PHARMACOLOGY TECHNOLOGY FUNDAMENTALS – 495280

Grades 9-12 1 year/1 credit

Prerequisite: INTRODUCTION TO MEDICAL PROFESSIONS

Provides an overview of the pharmacy technology field and develops the fundamental concepts and principles necessary for successful participation in the pharmacy field.

**Medical Professional Completer Checklist**

**Medical Professions (Required Core)**

- ┆ CTE Human Anatomy and Physiology (Required).....1 credit
- Intro to Medical Professions.....0 .5 credit
- Medical Professions Elective.....1 credit
- Medical Professions Elective..... 0.5 credit

**Electives**

- Intro to Abnormal Psychology (.5 credit)
- Medical Terminology (.5 credit)
- Pharmacology Technology Fundamentals 1 credit
- Medical Procedures (.5 credit)
- Intro to Medical Professions (.5 credit)
- CTE Human Anatomy & Physiology 1 credit
- Certified Nursing Assistant 1 credit

**TEXARKANA ARKANSAS CAREER & TECHNOLOGICAL CENTER  
LOCATED AT 1200 JEFFERSON AVENUE  
TEXARKANA, ARKANSAS  
2016-2017**

The **Texarkana Arkansas Career & Technological Center** (TACTC) career and technical education courses teach students to be productive and adapt to a rapidly changing workplace by the teaching of many transitional and employability skills. All courses are designed to provide students with the skills and educational experiences that will prepare them to be college and career ready. We encourage students to reach their highest potential as confident and independent learners.

The courses at the Career & Technological Center are focused toward students enrolled in grades 10-12, and who are pursuing a program of study.

Students who enroll in Career and Technical Education courses should strive to become a **Completer in a Program of study**. A **completer** is a student who completes a minimum of 3 units of credit, including the core required courses, in a CTE program of study and graduates from high school.

**MANY OF THE PROGRAMS OFFERS DUAL CREDIT THROUGH SOUTHERN ARKANSAS UNIVERSITY TECH AT CAMDEN IN THE FOLLOWING COURSES AT NO COST TO THE STUDENT:**

**Aviation Maintenance**

**Graphic Communication**

**Criminal Justice**

**Fundamentals of Audio/Video Technology & Film**

**Welding**

**Programs of Study consist of the following:** Aviation Mechanics, Automotive Collision Repair, Cosmetology, Criminal Justice, Graphic Communications, Industrial Equipment Maintenance (Proposed), Audio/Video Technology & Film Production, and Welding

The Center class times are as follows: (1<sup>st</sup>-2<sup>nd</sup> period) 8:10-9:50; (3<sup>rd</sup>-4<sup>th</sup> period) 10:10-11:50; (5<sup>th</sup>-6<sup>th</sup> period) 12:50-2:30

# AUTOMOTIVE COLLISION REPAIR

Students are encouraged to join and participate in SkillsUSA.

AUTOMOTIVE COLLISION REPAIR (Limited Class Size)

Grades 10-12            2 credits

Prerequisite: NONE

Structural Analysis/Repair - 494320

Grades 10-12            2 credits

This course concentrates on structural analysis and repair of modern vehicles. Upon successful completion of this course of study, the student will possess the necessary skills and training to begin a career in all fields related to collision repair and painting.

Non-Structural Analysis/Repair – 494300

Grades 10-12            2 credits

Students learn to repair non-structural component of automobiles. Instruction in body preparation for painting and finishing is included. Upon successful completion of this course of study, the student will possess the necessary skills and training to begin a career in all fields related to collision repair and painting.

Painting/Refinishing – 494310

Grades 10-12            2 credits

This course concentrates on painting and refinishing as they pertain to collision repair. The course includes preparation and application of refinish materials along with causes and correction of finish defects. Upon successful completion of this course of study the student will possess the necessary skills and training to begin a career in the collision repair industry.

2015-16 Rotation

Structural Analysis and Repair/Lab

2016-2017 Rotation

Painting & Refinishing

2017-2018 Non-Structural/Repair

Non-Structural Analysis/Repair

### Automotive Collision Completer Checklist

**Automotive Collision (Required Core)**

- ┆ Painting and Refinishing & Lab (Required).....2 credits
- ┆ Structural Analysis And Repair & Lab.....2 credits
- ┆ Automotive Collision Repair & Lab (Elective)..2 credits

**Electives**

Non-structural Analysis and Repair...2 credits

# AVIATION MECHANICS

The student must take the following courses to lead to certification as an Aviation Maintenance Technician and can be taken through the Texarkana Area Vocational Center. Concurrent credit can be earned through SAU Tech at Camden or Texarkana College toward completion of a two-year degree. The upper level courses required (Airframe and Power plant) to complete this certification can be taken at Texarkana Community College or SAU Tech at Camden. The courses described will give students a broad range of knowledge in the aviation field and enable them to research, document, and comply with the FAA requirements: aircraft standards, aircraft science, mathematics, aircraft drawing, and basic electricity.

## AVIATION MECHANICS I (A & P) - 494250

Grades 10-11 1 year; 1<sup>st</sup> and 2<sup>nd</sup> period = 2 credits

Prerequisite: NONE

In Aviation I, the first semester, the student will gain an understanding of basic aerodynamics, aircraft propulsion, flight operations, air navigation, meteorology, and communications. The student will fortify these learning concepts with hands on laboratory work and field trips to aeronautical facilities. In the second semester, mathematics, physics and aircraft drawings will be covered. After the mathematics section is covered the student should be able to perform the mathematics computations required in the aviation maintenance technical curriculum. After completing the physics section the student will have an understanding of the specific principles that apply to the operation of aircraft, engines, and the equipment that the aviation maintenance technician would be in contact with daily. At the completion of the aircraft drawings section the student will be able to make a sketch of an aircraft repair suitable for use on an FAA Form 337 and understand information presented on typical aircraft blueprint, graphs, and charts.

## AVIATION MECHANICS II (A & P) - 494260

Grades 11-12 1 year; 1st and 2nd period = 2 credits

Prerequisite: AVIATION I

In Aviation II, the second year of instruction in aircraft mechanics, the study enhances job-specific training for employment as an aircraft mechanic. Students will focus on ground handling and servicing, basic electricity, electrical generators and motors, hand tools and measuring devices, aircraft structural materials, aircraft hardware, and fluid lines and fittings.

## AVIATION III - 494261

Grades 12 1 year; 1st and 2nd period = 2 credits

Prerequisite: AVIATION II

In Aviation III, the third year of instruction, students will expand their skills and knowledge covered in level I and II. Students will focus on nondestructive testing, cleaning and corrosion, weight and balance maintenance, publications/forms/records and mechanic privileges and limitations.

### Aviation Mechanics Completer Checklist

#### Aviation Mechanics (Required Core)

- ┆ Aviation Mechanics I (Required)...2 credits
- ┆ Aviation Electives.....2 credits

#### Electives

- Aviation II
- Aviation III

# GRAPHIC COMMUNICATIONS

Graphic Communications is accredited with PrintED in the following areas: Introduction to Graphic Communications, Advertising Design, Bindery & Finishing, and Digital File Preparation. PrintED, administered by the Graphic Arts Education and Research Foundation (GAERF) is a national accreditation program, based on industry standards, appropriate for secondary and post-secondary schools offering graphic communications curricula. The competencies were written by industry professionals and graphic communications educators to provide measureable or observable knowledge, skills, abilities, and behaviors critical to successful job performance in the six accreditation areas. Many PrintED accredited programs have established articulation agreements with institutions of higher learning. Articulation agreements are designed to build strong partnerships between high schools and community colleges and/or four-year institutions. The agreement outlines specific requirements completed at the high school level that will transfer to institutions of higher learning. PrintED instructors are encouraged to form articulation agreements to provide students with the benefit of pursuing further education with college credit already in hand. Students are encouraged to join and participate in SkillsUSA.

GRAPHIC COMMUNICATIONS (limited class size)  
 Grades 10-12                      1 credit (2 periods; 1semester)

Fundamental of Graphic Communications – 493600  
 Grades 10-12                      1 credit (2 periods; 1semester)  
 Prerequisite: NONE

This course provides an overview of digital imaging, digital press operation, and finishing and binding operations. It requires production of visuals using electronic illustrations and text of the printing industry, its basic operations, and career opportunities.

Intermediate Graphic Communications – 493610  
 Grades 10-12                      1 credit (2 periods; 1semester)  
 Prerequisite: Fundamental of Graphic Communications

Digital press operation, basic printing/binding equipment, basic workplace skills, and finishing operations are presented in this course. This course is directed at building entry-level skills.

Advanced Graphic Communications- 493630  
 Grades 11-12                      1 credit (2 periods; 1semester)  
 Prerequisite: Fundamental of Graphic Communication and Intermediate of Graphic Communications

Digital press operation, all printing/binding equipment, workplace skills development, and finishing operations are presented in this course. This course is directed at building advance-level skills and preparing for the workforce.

**\*Course Sequence**

- Fundamentals
- Intermediate
- Advanced

**Graphic Communication Completer Checklist (Required Core)**

- ┌            Fundamentals (Required).....1 credit
- ┌            Intermediate (Required).....1 credit
- ┌            Advance (Required).....1 credit

□

# COSMETOLOGY

**If you have enrolled in Cosmetology you must provide the following, by the 3<sup>rd</sup> week of school: 1) Copy of birth certificate 2) Copy of social security card 3) \$20 money order or cashier's check** Students are encouraged to join and participate in SkillsUSA

## SENIORS MAY ENROLL IN COSMETOLOGY AS A FIRST YEAR STUDENT

COSMETOLOGY I (CLASS) – 494550 1 year/1 credit

COSMETOLOGY I (LAB) – 494560 1 year/1 credit

Grades 11-12 (Limited class size)

Preference will be given to juniors - A two semester instructional program that prepares the individual to begin achieving the basic competencies necessary to begin a program of study in cosmetology and to begin acquiring documented hours of instruction required by the State Board of Cosmetology.

Students will receive instruction in: Professional Image, Bacteriology, Sterilization and Sanitation, Poetries of the Hair and Scalp, Draping, SKILLS USA Student Organization, Shampoo, Rinse, and Conditioning, Haircutting, Finger Weaving, Wet Hair Styling, Permanent Wave, Hair Coloring, Chemical Hair Relaxing and Soft Curl, Thermal Hair Straightening (Soft Curl), the Artistry of Artificial Hair.

COSMETOLOGY II – 494570 (Limited class size)

Grades 11-12 1 year/2 credits

Prerequisite: NONE

This is a two semester instructional program that allows the individual the opportunity to achieve competencies to complete a program of study in cosmetology. In order to be eligible to take the Arkansas State Board Exam you must acquire 1500 hours.

Students will receive instruction in:

- Manicures and Pedicures
- The Nail and Its Disorders
- Theory of Massage
- Facials
- Facials Make-up
- The Skin and Disorders
- Removing Unwanted Hair
- Cells, Anatomy, and Physiology
- Electricity and Light Therapy

### **Cosmetology Completer Checklist (Required Core)**

- ┆ Cosmetology I Class (Required).....1 credit
- ┆ Cosmetology I Lab (Required) .....1 credit
- ┆ Cosmetology II (Required).....2 credit



# CRIMINAL JUSTICE

This program is designed to assist those students who are interested in a career in criminal justice. It introduces students to the criminal justice system of the United States and the State of Arkansas. Students will discover how law affects their lives and make connections between the development of law and societal and individual values. An important part of the Criminal Justice program is the use of community resources such as the state, local and county police departments, judiciary and other legal and public safety agencies. The program will focus on the skills and tools used by professionals in the field of criminal justice. While the first year of Criminal Justice will be a broader look at the criminal justice system and career opportunities in this field, the second year will heavily incorporate job specific skills while continuing to delve into the criminal justice system.

Students are encouraged to join and participate in SkillsUSA.

## INTRODUCTION TO CRIMINAL JUSTICE – 494620

Grades 10-12                      1 credit (2 periods; 1semester)

Prerequisite: None

An instructional program that prepares individuals to perform the duties of police and public security officers, including patrol and investigative activities, traffic control, crowd control, public relations, witness interviewing, evidence collection and management, basic crime prevention methods, weapon and equipment operation and maintenance, report preparation, and other routine law enforcement responsibilities.

The teaching unit includes: Criminal justice professions, Interpreting criminal and civil laws, communicating with others, Legal use of force, SKILLS USA student organization.

## FOUNDATION OF LAW ENFORCEMENT - 494630

Grades 10-12                      1 credit (2 periods; 1semester)

Prerequisite: None

An instructional program that prepares individuals to perform the duties of police and public security officers, including patrol and investigative activities, traffic control, crowd control, public relations, witness interviewing, evidence collection and management, basic crime prevention methods, weapon and equipment operations and maintenance report preparation, and other law enforcement responsibilities.

The teaching units include: Responding to emergencies, controlling traffic, performing patrol functions, SKILLS USA student organization.

## CRIME SCENE INVESTIGATION– 494600

Grades 11-12                      1 credit (2 periods; 1semester)

Prerequisite: None

An instructional program that prepares individuals to perform the duties of police and public security officers, including patrol and investigative activities, traffic control and investigative activities, traffic crowd, crowd control, public relations, witness interviewing, evidence collection and management, basic crime prevention methods, weapon and equipment operation and maintenance, report preparation, and other routine law enforcement responsibilities.

The teaching units include: Narcotics and dangerous drug laws, investigation crimes, search and seizure, evidence, arresting suspect, SKILLS USA student organization.

### **Criminal Justice Completer Checklist (Required Core)**

- ┆ Introduction to Criminal Justice (Required).....1 credit
- ┆ Foundation of Law Enforcement (Required).....1 credit
- ┆ Crime Scene Investigation.....1 credit

# INDUSTRIAL EQUIPMENT MAINTENANCE

INDUSTRIAL EQUIPMENT MAINTENANCE (Limited class size)  
Grades 10-12 1 year, 1 credit

Students are encouraged to join and participate in SkillsUSA.

Industrial Equipment Maintenance program will combine on-the-job or practical, hands-on training with classroom instruction. Students focus on learning to operate, disassemble, repair, and assemble different types of industrial machinery and equipment. They also study subjects such as blueprint reading, shop mathematics, welding, computers, and electronics.

Industrial Equipment Maintenance I (Class) – 495150 1 year, 1 credit  
Industrial Equipment Maintenance I (Lab) - 495160 1 year, 1 credit  
Grades 10-12  
Prerequisite: NONE

Industrial Equipment Maintenance II – 495170  
10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup> Grade 2 credits 1 year  
Prerequisite: Industrial Equipment Maintenance I

\*2015-16 Rotation (Year 2)

Industrial Equipment Maintenance II/Lab

## Industrial Equipment Maintenance Completer Checklist

### IEM (Required Core)

- ┆ Industrial Equipment Maintenance I Class (Required).....1 credit
- ┆ Industrial Equipment Maintenance I Lab (Required).....1 credit
- ┆ Industrial Equipment Maintenance II.....2 credits

## **AUDIO/VIDEO TECHNOLOGY & FILM (Razorback TV)**

Students are encouraged to join and participate in SkillsUSA.

### FUNDAMENTALS OF AUDIO/VIDEO TECHNOLOGY AND FILM - 493640 (Limited Class Size)

Grades 9-12                      2 periods, 1 semester/1 credit

Prerequisite: NONE

This is the basic core course dealing with video and audio production aspects. Students will study the basics of film and television production as well as other forms of audio-video communication such as animation, graphics and sound (including music) production for video. They will study the history of Audio-Video Technology and Film as well as careers and skills necessary for employment in this pathway.

### INTERMEDIATE AUDIO/VIDEO TECHNOLOGY AND FILM – 493650

Grades 10-12                      2 periods, 1 semester/1 credit

Prerequisite: FUNDAMENTALS OF AUDIO/VIDEO AND FILM

This is the advanced core course for students in the audio-visual technology & film career pathway. Students will go beyond the basics of film and television production and develop specialties in one or more of audio-video communication such as camera work and editing, animation, graphics and sound (including music) production for video. Students will work as a team to complete various productions such as multimedia presentations and video for special events and programs, documentaries, commercials, instructional videos, and video slideshows. These students will expand their knowledge of different types of software and techniques used in production, work on more complicated projects, as well as take on mentoring and leadership roles in the production process.

### ADVANCED AUDIO/VIDEO TECHNOLOGY AND FILM - 493660

Grades 11-12                      2 periods, 1 semester/1 credit

Prerequisite: INTERMEDIATE AUDIO/VIDEO TECHNOLOGY AND FILM

The course is project-based instruction and is an extension of the Audio/Video Technology and Film program of study core. It provides classroom training and instruction for the advanced student that is over and above the basic core course requirement. The content build on the knowledge, skills and abilities taught in Fundamental and Intermediate Audio/Video Technology and Film.

### \*Course Sequence

Fundamentals

Intermediate

Advance

### **Audio/Video Technology & Film Completer Checklist**

- ┆ Fundamentals (Required).....1 credit
- ┆ Intermediate (Required).....1 credit
- ┆ Advance.....1 credit

## WELDING

**The following items must be furnished by the student the first week of September: Welding Cap (\$8 to \$15), pull on leather boots with steel toe (\$50 to \$80), key lock (\$5 to \$12), 25 ft. tape measure (\$5 to \$20). Long sleeve 100% cotton or denim shirt and denim jeans without holes or frayed cuffs MUST be worn.**

Students are encouraged to join and participate in SkillsUSA.

WELDING (Limited class size)

Grades 10-12                                  2 periods, 1 semester/1credit

This course of study prepares students to work with a variety of welding techniques. Upon successful completion of the program, students will possess the necessary skills and training to begin a career in all fields related to welding technology.

2015-16 Rotation

Introductory Craft Skills  
Shield Metal Arc

2016-17 Rotation

Advance Shielded Metal Arc  
Gas Metal Arc

The following courses are offered in Welding Technology:

Introductory Craft Skills – 494480

Advanced Shielded Metal Arc

Gas Tungsten Arc Welding – 495560

Shielded Metal Arc Welding – 495580

Gas Metal Arc Welding – 495550

INTRODUCTORY CRAFT SKILLS – 494480

Grades 10-12                                  2 periods, 1 semester/1 credit

Prerequisite: NONE

This instructional program covers modules for building foundation skills in craft areas. It helps entry-level craft works set up their awareness of materials handling techniques and equipment. Key features of the program include competency-based training, and performance testing. This program provides trainees, instructors, and companies with a standard form of recognition through the National Registry.

SHIELDED METAL ARC WELDING – 495580

Grades 10-12                                  2 periods, 1 semester/1 credit

Prerequisite: NONE

Shielded Metal Arc Welding prepares students to apply technical knowledge and skills to unite or separate metal parts by using a variety of techniques and equipment. Emphasis of this course will be on general welding knowledge and techniques in oxyfuel gas cutting and plasma arc cutting. This basic course will cover shop safety, general safety, and safety on each piece of equipment with which the student will work. Students will learn the names and proper use of welding tools and how to read and interpret basic blue prints and shop sketches.

ADVANCED SHIELDED METAL ARC WELDING – 495540

Grades 10-12                      2 periods, 1 semester/1 credit

This instructional program covers intermediate and advanced techniques of shielded metal arc welding, visual inspection of welds and all the bases of a welding project from design, drafting, cost estimation, fabrication, and finally non-destructive testing. Students obtain certification preparation for carious American Welding Society (AWS) and National Center for Construction Education Research (NCCER) specification and certification. After completing this program, students will be ready for an entry level job in the shielded metal arc welding field.

GAS METAL ARC WELDING - 495550

Grades 10-12                      2 periods, 1 semester/1 credit

Prerequisite: NONE

Gas Metal Arc Welding prepares students to apply technical knowledge and skills to unite or separate metal parts by heating, using a variety of techniques and equipment. Emphasis of this course will be the use of GMAW/MIG welders. Students will weld types of structural material, diagnose welding problems, and perform visual inspections.

GAS TUNGSTEN ARC WELDING - 495560

Grades 10-12                      2 periods, 1 semester/1 credit

Prerequisite: NONE

Gas Tungsten Arc Welding prepares students to apply technical knowledge and skills to unite or separate metal parts by heating, using a variety of techniques and equipment. Emphasis of this course will be the use of gas tungsten arc welders. This course will reinforce the principles of shop safety, general safety, and safety on each piece of equipment with which the student will work. Students will learn to read and interpret blue prints, layout, design, and development of shop sketches.

**Welding Completer Checklist**

**Welding (Required Core)**

- ┆ Introductory Craft Skills.....1 credit
- ┆ Shielded Metal Arc.....1 credit
- ┆ Advanced Shielded Metal Arc.....1 credit

**Electives**

- Gas Metal Arc Welding
- Gas Tungsten Arc Welding