VBHS 2024-2025 COURSE CATALOG

Table of Contents

Calculations for GPA

Van Buren High School reserves the right to make changes as required in course offerings and curriculum. GPA will be figured with State Endorsed Weighted Credit Courses using 5.0 scale, and all other courses will use the 4.0 scale. Class rank will be calculated using the state GPA scale. Calculations of GPA will be based on grades earned in academic courses in grades 9 through 12. See Board Policy for complete GPA calculation policy.

AP/ State Endorsed Weighted = 5.0 Scale	Concurrent Courses = 4.0 Scale	Honors Courses = 4.0 Scale	On-level Course = 4.0 Scale
A = 5.0	A = 4.0	A = 4.0	A = 4.0
B = 4.0	B = 3.0	B = 3.0	B = 3.0
C = 3.0	C = 2.0	C = 2.0	C = 2.0
D = 2.0	D = 1.0	D = 1.0	D = 1.0
F = 0	F = 0	F = 0	F = 0

ADVANCED PLACEMENT = AP Courses are taught on a college Level. They stress critical thinking, writing, and analytical skills. Students may receive college credit by taking and successfully passing the College Board AP exam. The student must pass both semesters of the AP course and take the appropriate AP exam to receive weighted credit. Weighting will be reduced to a 4.0 scale on the final transcript for students who do not meet these conditions.

CONCURRENT CLASSES Courses taught on a college level through Arkansas Tech University or University of Arkansas Fort Smith. Students receive college credit upon completion of the class with a C or above.

HONORS COURSES Courses are more rigorous than on-level courses. Students are introduced to higher order thinking skills and are prepared for AP Courses.

ATHLETIC ELIGIBILITY STANDARDS Eligibility rules apply to all students competing in athletics or non-athletic activities.

For the fall semester of 9th grade, students are required to have passed 4 courses. For the spring semester of 9th grade, students must have passed 4 academic courses.

Students in grades 10-12 must have passed at least 4 academic courses and have a minimum 2.0 GPA for the previous semester to be eligible to compete.

ARKANSAS TECH A CENTURY FORWARD Indicates concurrent credit courses through Arkansas Tech University Russellville Campus. Students can earn 24 college credits towards transferable college credit at no cost to the family. Courses include: US History I, US History II, World Civ I, World Civ II, College Algebra, Plane Trigonometry, Health, Physical Education, English Composition I, and English Composition II.

Van Buren High School Diplomas

Smart Core Diploma

English—4 Credits
English 9
English 10
English 11
English 12

Mathematics—4 Credits
Algebra I
Geometry
Algebra II
ADE approved fourth Math credit or Computer Science Flex

Science—3 Credits
ADE approved Physical Science
ADE approved Biology
ADE approved third Science or Computer Science Flex

Social Studies—3 Credits
Civics .5 credit
Economics .5 credit
World History
American History

State Required
Oral Communications .5 credit
Physical Education .5 credit
Health and Safety .5 credit
Fine Arts .5 credit

Digital Learning Course
Computer Science Course (2026)

Career Focus Electives - 6

*Technology (Local Credit)
Principal Approval

***22 Credits needed to Graduate**

Diplomas of Distinction

(Local Honor Diplomas)

College Prep

Smart Core curriculum including:

- **23 Credits**
- 4 Honors (PAP) , Concurrent or state endorsed weighted credit courses
- 3.0 GPA at the end of 8 semesters

*Technology (Local Credit)
Principal Approval

College Prep Honors

Smart Core curriculum including:

- **23 Credits**
- 8 Honors (PAP), Concurrent or state endorsed weighted credit courses (2 must be state endorsed weighted credit courses)
- 3.5 GPA at the end of 8 semesters

*Technology (Local Credit)
Principal Approval

College Prep High Honors

Smart Core curriculum including:

- **23 Credits**
- 12 Honors (PAP), Concurrent, or state endorsed weighted credit courses (3 must be state endorsed weighted credit courses)
- 3.9 GPA at the end of 8 semesters

*Technology (Local Credit)
Principal Approval

***23 Credits needed to Graduate**

ARKANSAS GRADUATION REQUIREMENTS
SMART CORE INFORMATION

For current Arkansas Graduation Requirements, please visit DESE Graduation Requirements

English – 4 credits
- 9th Grade English*
- 10th Grade English*
- 11th Grade English*
- 12th Grade English*

Mathematics – 4 credits (or 3 credits of math and 1 credit of Computer Science)**
- Algebra I*
- Geometry*
- Algebra II*
- ADE approved fourth Math credit or Computer Science Flex – 1 credit

Science – 3 credits (or 1 biology, 1 physical science, and 1 Computer Science)**
- ADE approved biology – 1 credit
- ADE approved physical science – 1 credit
- ADE approved third science or Computer Science Flex – 1 credit

Social Studies – 3 credits
- Civics* - ½ credit
- World History* - 1 credit
- American History* - 1 credit
- Other Social Studies* - ½ credit

Oral Communication* – ½ credit
Physical Education* – ½ credit
Health and Safety* – **½ credit**
Economics and Personal Finance* – **½ credit** (may be counted toward Social Studies or Career Focus)
Fine Arts* – **½ credit**
Career Focus* – **6 credits**

Personal Finance – Beginning with the freshmen class of 2017-18, A.C.A. § 6-16-135 requires students to complete a course that includes specific personal finance standards in either grades 9, 10, 11, or 12.

***Category course options as listed on the ADE Smart Core Course Code List**

****Computer Science** – **(Required Beginning with Class of 2026)** A flex credit of an approved Computer Science (any course starting with 465 or 565) may replace the 4th math requirement or the 3rd science requirement. Two distinct credits of the approved computer science courses may replace the 4th math requirement and the 3rd science requirement. Once the 4th math requirement and the 3rd science requirements have been met, any additional computer science credits will be recognized as career focus credits.
Each high school student shall be required to take at least one digital learning course for credit to graduate.

Smart Core is the default graduation requirements for all students; therefore, signatures are no longer required to participate. Schools should develop Students Success Plans beginning in 8th grade for all students in accordance with Smart Core requirements.

State Endorsed Weighted Courses (5.0 Scale)

VBHS OFFERS THE FOLLOWING COURSES THAT ARE RECOGNIZED BY ADHE AS WEIGHTED COURSES. THESE COURSES WILL BE AVERAGED INTO YOUR GPA ON THE 5.0 SCALE

AP LITERATURE AND COMPOSITION
AP LANGUAGE AND COMPOSITION
AP BIOLOGY
AP CHEMISTRY
AP PHYSICS
AP STATISTICS
AP CALCULUS AB
AP CALCULUS BC
AP WORLD HISTORY
AP US HISTORY
AP GOVERNMENT & POLITICS
AP EUROPEAN HISTORY
AP COMPUTER SCIENCE A
AP PSYCHOLOGY
AP SPANISH LANGUAGE
AP SPANISH LITERATURE
AP STUDIO ART DRAWING
AP STUDIO ART 2D DESIGN
AP STUDIO ART 3D
COMPUTER INTEGRATED MANUFACTURING
MEDICAL INTERVENTIONS
CASE PRINCIPLES OF AGRI SCIENCE (PLANT)
CASE NATURAL RESOURCES & ECOLOGY
PROGRAMMING YEAR 3
CYBERSECURITY YEAR 3

English Courses

ENGLISH COURSE OFFERINGS

**4 English credits are required for graduation.*
**Professional Oral Communication is required for graduation.*

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
411000	**English 10** *Study of reading, writing, speaking across World cultures, periods and genres.*		1		■		
411001	**Honors English 10** *Study of reading, writing, speaking across World cultures, periods and genres with extension projects, research, and additional readings.*		1		■		
412000	**English 11** *Study of reading, writing, speaking across American cultures, periods and genres.*		1			■	
412001	**Honors English 11** *Study of reading, writing, speaking across American cultures, periods and genres with extension projects, research, and additional readings.*		1			■	
517040	**AP Literature & Composition** *College level study of imaginative literature; preparation for the AP exam.*		1			■	
413000	**English 12** *Study of reading, writing, speaking across British cultures, periods and genres.*		1				■
413010	**Transitional English 12** *Designed to accelerate students' literacy skills essential for college and career readiness.*		1				■
517030	**AP Language & Comp** *College level study of language, rhetoric, and expository writing; preparation for the AP exam.*		1				■
519940 ARKANSAS TECH	**English Composition I & II Concurrent Credit** *Study of reading, writing, speaking for concurrent college credit through ATU. (College Credit for English Composition 6 hours).*	ACT 19 IN READING & ENGLISH & 2.0 GPA	2				■
414210	**Professional Oral Communication** *This one semester graduation requirement course provides career exploration, interests, and programs of study.*		.5		■	■	■

ENGLISH LANGUAGE LEARNERS

**4 English credits are required for graduation.*

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
696008	**Language Acquisition 1** *Focus on early language acquisition for students with limited English proficiency.*		1	■	■	■	■
696009	**Language Acquisition 2** *Continuation of Language Acquisition 1.*	LANG AI	1		■	■	■
510040	**ELL English 9** *Language arts for students with limited English proficiency.*		1	■			
511030	**ELL English 10** *Language arts for students with limited English proficiency.*		1		■		
512030	**ELL English11** *Language arts for students with limited English proficiency.*		1			■	
513030	**ELL English 12** *Language arts for students with limited English proficiency.*		1				■

Math Courses

MATH COURSE OFFERINGS

**4 Math credits are required for graduation.*

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
430000	**Algebra 1** *Study of properties of equality, solving equations, graphs, tables, functions, patterns, relations, and polynomial operations.*		1	■			
431000	**Geometry** *Study of dimensional shapes, perimeter, area, volume, relationships involving triangles, quadrilaterals, polygons, circles, and trigonometric ratios.*	ALGEBRA I	1		■		
431002	**Honors Geometry** *In depth study of dimensional shapes, perimeter, area, volume, triangles, quadrilaterals, polygons, circles, and trigonometric ratios.*	ALGEBRA I	1	■	■		
432000	**Algebra 2** *Study of functions both graphically and algebraically; preparation for Algebra 3 and Pre-Calculus.*	ALGEBRA I	1		■	■	
432001	**Honors Algebra 2** *In depth study of functions both graphically and algebraically; preparation for College Algebra/Trig Concurrent.*	ALGEBRA I	1		■	■	
439071	**Honors Advanced Algebra 3** *(Designed for **juniors** to increase ACT scores to become eligible to take concurrent in senior year) In-depth study of pre-calculus topics; preparation for College Algebra/Trig Honors. Satisfies fourth year math required for unconditional admission to Arkansas' colleges and universities.*	ALGEBRA 2 GEOMETRY	1			■	■
539900 ARKANSAS TECH	**College Algebra/Trig Concurrent Credit** *(Designed for **juniors or seniors** who have met the ACT requirement for concurrent credit) In-depth study of pre-calculus and trigonometric concepts. Satisfies the fourth year of Mathematics required for unconditional admission to Arkansas' colleges and universities. College Credit for Algebra and Trig (6 hours) Prerequisite for Calculus AB or BC*	ALGEBRA I ALGEBRA 2 GEOMETRY ACT 19 IN READING & MATH	2			■	■
439110	**Transitional Mathematics** *(Designed for **seniors** to re-visit and improve basic Algebra 2 skills to develop math skills to meet the needs of graduation requirement.) Focuses on the key readiness standards from the Common Core Standards. Addresses Algebra I, Geometry, and Algebra II.*	ALGEBRA 2 GEOMETRY	1				■
439070	**Algebra 3** *(Designed for **seniors** to build on skills learned in Algebra 2 that are essential for career or college readiness) Increase understanding of algebraic, graphical, and methods to analyze functions to use in careers or college.*	ALGEBRA I ALGEBRA 2 GEOMETRY	1				■
433000	**Pre-Calculus (***Designed for **seniors** to increase ACT math scores to meet the requirements for concurrent credit). Study of pre-calculus concepts. Satisfies the fourth year of mathematics required for unconditional admission to Arkansas' colleges and universities.*	ALGEBRA 2 GEOMETRY	1				■
539901 ARKANSAS TECH	**Concurrent College Algebra** *In-depth study of pre-calculus concepts. Satisfies the fourth year of mathematics required for unconditional admission to Arkansas' colleges and universities. This course may serve as a college credit for College Algebra. Offers students an opportunity to increase ACT scores to college ready and may be taken after Pre-Calculus. (*Students cannot choose this course on selection sheet)*	ALGEBRA I ALGEBRA 2 GEOMETRY ACT 19 IN READING & MATH	1				■
539030	**AP Statistics** *Statistics and probability; preparation for AP exam.*	ALGEBRA 2	1			■	■
534040	**AP Calculus AB** *Study of Calculus 1; preparation for AP Calculus AB exam. Students can earn 4 hours of college credit. (Double blocked)*	COLLEGE ALG/TRIG	1				■
534050	**AP Calculus BC** *Study of Calculus 1 & Calculus 2; preparation for AP Calculus BC examination. Students can earn up to 8 hours of college credit. Course meets for two periods. Required: A on transcript in Con PreCal/Trig OR teacher recommendation to take BC. (Double blocked)*	COLLEGE ALG/TRIG	1				■

Science Courses

SCIENCE COURSE OFFERINGS

**3 Science credits are required for graduation.*

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
423000	**Physical Science Integrated** *Study of matter and energy*		1	■			
420000	**Biology Integrated** *Study of cells, genetics, microorganisms, plants, animals and ecology*		1		■		
42000H	**Biology Integrated Honors** *Study of cells, genetics, microorganisms, plants, animals and ecology. This course also prepares students to be ready to take future college level AP courses.*		1		■		
520030	**AP Biology** *College level study of cells, biochemistry, energy, genetics, and ecology with extension projects, labs, lab report write ups, and readings; meets Biology credit requirement; preparation for AP exam.*		1		■	■	■
424020	**Environmental Science** *The study of the management of resources and impact of humans on the environment.*		1		■	■	■
425050	**Astronomy** *The study of the local planets, moons, solar system, and galaxy; this course also covers cosmology, the life cycles of stars, and how humans study space.*		1		■	■	■
421000	**Chemistry Integrated** *Study of atomic structure, chemical reactions, and kinetic theory.*		1			■	■
42100H	**HONORS Chemistry Integrated** *Study of atomic structure, chemical reactions, and kinetic theory; Meets third science credit requirement. This course also prepares students to be ready to take future college level AP courses.*		1			■	■
521030	**AP Chemistry** *This two semester course is a college level study of atomic structure, chemical reactions and kinetic theory with labs and outside of class work; meets third science requirement; includes preparation for AP exam, which can earn students college credit with a passing score. Recommended prerequisites include successful completion of a general high school chemistry course AND Algebra 2. Course meets for two periods daily.*	ALGEBRA 2	1			■	■
422010	**Physics** *Study of the laws that govern the universe.*	ALGEBRA I CO-REQ ALGEBRA 2	1			■	■
522080	**AP Physics** *Study of the laws that govern the universe with extension projects, labs and readings. It is recommended that students have passed college algebra/trigonometry or currently be enrolled in College Algebra/Trigonometry.*	GEOMETRY CO-REQ ALGEBRA 2	1			■	■

Social Studies Courses

SOCIAL STUDIES COURSE OFFERINGS

**3 Social Studies credits are required for graduation.*

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
471000	**World History** *This two semester course provides an overview of the major world events from the Renaissance period to present day*		1		■	■	■
	Honors World History *This two semester course provides an overview of the major world events from the Renaissance period to present day.*		1		■	■	■

471001	*This course also prepares students to be ready to take future college level AP courses*						
571020	**AP World History** *Introductory college-level modern world history course. Students cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.*		1		■	■	■
470000	**United States History Since 1929** *This two-semester course will trace our nation's history from 1890 to present.*		1			■	■
570020	**AP United States History** *This two-semester college-level course examines the evolution of the American republic from the initial European incursions into North America to the present. Students will use historical investigation to find clues in historical documents and make judgments about how people lived and the reason/outcome of major events in our nation's history. Students will have the opportunity to earn college credit by taking the AP exam at the end of the year.*		1			■	■
579920 ARKANSAS TECH	**American History 1 & 2 Concurrent Credit** *This is a college-level two semester survey history course. The first semester covers from the beginning through Reconstruction. The second semester covers from 1877 through present day. Each semester is worth three (3) credit hours through Arkansas Tech University.*	ACT 19 READING	2			■	■
472000	**Civics/Government** *This one semester course provides students with a basic understanding of civic life, politics, and government, and a short history of government's foundation and development in this country.*		.5		■	■	■
474300	**Economics & Personal Finance** *This one semester course studies the law of supply and demand, forms of business, labor unions, government finances and influence on the economy, money and prices, inflation and deflation cycles. The course relates history and politics to the study of economics.*		.5		■	■	■

Elective Courses

SOCIAL STUDIES ELECTIVES

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
473000	**Arkansas History** *Discover why Arkansas is considered the "Land of Opportunity". This one semester course provides a study of the political and cultural history of the state of Arkansas from its earliest inhabitants to the Louisiana Purchase up until present day*		.5		■	■	■
474600	**World Geography** *Students will learn how the world's physical features as well as cultural diversities have impacted and shaped the world we live in today. Students will develop knowledge and skills to help them better understand the differences in physical features and climates from the regional to the international level, as well as gaining a better understanding of different cultural perspectives.*		.5		■	■	■
579041	**Street Law** *This one semester course is a social studies elective that serves as an introductory course to law and legal systems in the United States.*		.5		■	■	■
474700	**African American History**. *This one semester course examines the earliest origins of African Americans and their contributions in American history from the colonial period to the modern day.*		.5		■	■	■
474500	**Sociology** *Introduction to the study of humankind's most important creation-- the social group. Chances are that you awoke this morning within the confines of one group-- your family; went to school and met up with another-- your friends; and are now considering joining a*		.5		■	■	■

	different group--this class. Each of these groups influences your behavior in different ways. In this course, you will examine a wide variety of groups and the behaviors that characterize them.						
474400	**Psychology** *This one semester course focuses on individual behavior and how an individual thinks, feels, and reacts to certain stimuli. Major emphasis will be placed on social psychology, research methods, altered states of consciousness, psychological disorders, personality and how the brain works.*		.5		■	■	■
679001	**Indigenous Peoples of the Americas** *A one-semester course that explores the culture and civilization of the native peoples of North and South America (eg., Inuit, Cherokee, Aztecs, etc.)*		.5		■	■	■
679002	**Women in History** *A one-semester course that explores the contributions of women throughout the development of our world from ancient times to the modern day*		.5		■	■	■
579010	**American History Through Film** *This one semester course examines U.S. history by comparing full length feature films with traditional historical materials.*		.5			■	■
579120	**AP Psychology** *This two semester class covers the same material presented in a college level introductory psychology class.*		1			■	■
572040	**AP Government & Politics** *This two semester college-level course will help students cultivate their understanding of U.S. government and politics through analysis of data and text-based sources as they explore topics like constitutionalism, liberty and order, civic participation in a representative democracy, competing policy-making interests, and methods of political analysis. Emphasis is placed on class discussion, use of primary and secondary sources, U.S. Supreme Court case studies, critical reading, and analytical writing. Students will have the opportunity to earn college credit by taking the AP Exam at the end of the year.* ****** can count as the Civics graduation requirement***		1			■	■
579170	**AP European History** *This two-semester college-level course is the study of the political, social, and economic history of Europe from the High Renaissance to the present. This course stresses writing and critical thinking skills. Students will have the opportunity to earn college credit by taking the AP exam at the end of the year.*		1			■	■
579910	**World Civilization 1 & 2 Concurrent Credit** *College level study of world history from 1000 to present; concurrent credit through ATU; up to 6 hours credit* ******can count as the World History graduation requirement***		1			■	■

ENGLISH ELECTIVES

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
496040	**Transitional Literacy** *Designed to dramatically accelerate students' literacy skills essential for college and career readiness. Students receive instruction in reading, writing, speaking and listening, and language, emphasizing literary and informational texts from diverse genres in print and digital formats.*		1		■	■	■
417010	**Creative Writing** *Writing of poetry, short fiction, and personal narrative with an emphasis on developing reflection and creativity.*		.5	■	■	■	■
415000	***Journalism 1*** *Introduction to multimedia journalism. Students will learn different writing styles and presentation styles (student-made websites, TedTalks, podcasts, documentaries). Students learn how to submit these works for publication, for the local, national, and sometimes international audiences. This course is a prerequisite to Journalism 2 (Pointer Pack News).*		1	■	■	■	■
41501P	***Journalism 2 (Pointer Pack News)*** *This course will provide students with an opportunity to create a student-lead news production to broadcast*		1		■	■	■

	to VBHS. Production includes original art, web design, music, filming & editing, public speaking, interviewing, and journalistic writing.This course does require some extracurricular activity. (Application only)	JOURNALISM I (MUST APPLY)					
415020	***Journalism 3 (Yearbook)*** *Yearbook production; Recommended B in English. (Application only)*	JOURNALISM I (MUST APPLY)	1		■	■	■
479050	**Academic Study of the Bible** *A one semester English course that is designed to strengthen students' understanding of the Bible & its impact upon American culture. This nonsectarian, non-religious, academic course integrates the study of the Bible as a piece of literature.*		.5	■	■	■	■
519063	**Studies of the Holocaust** *Humanities-based study of World War II and the Holocaust through the writings and creative productions (e.g., fiction, non-fiction, poetry, journals, articles, primary source documents, art, drama photography) of the time period and beyond.*		.5	■	■	■	■
519065	**Stages of Drama** *Readings of plays from Ancient Greece to contemporary.*		.5			■	■
519064	**Southern Perspectives** *Studying The South through fiction, nonfiction, documentaries, and films.*		.5			■	■
419110	**Critical Reading** *Students will learn to analyze, interpret, and apply comprehension skills to all types of reading. This course is designed to accelerate reading growth by strengthening comprehension outcomes in high school grades. Students will also demonstrate literacy competence through purposeful application of knowledge and skills from this course, based on individual and collective literacy goals.*		1		■	■	■

WORLD LANGUAGE ELECTIVES

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
649001	**Survey of World Language & Cultures** *This one semester course is designed to take students on a journey around the world to explore a number of countries in the Americas, Africa, Europe, and Asia.*		.5	■	■	■	■
441580	***French Cultural Studies*** *A one-year course structured for all levels from beginner to advanced. Students will learn words and phrases for basic concepts and how to communicate in common situations. There is an emphasis on communication, but grammar will also be addressed. The main theme of the course is holidays, celebrations and other customs in French-speaking countries. Students will compare and contrast traditions and social norms in various regions while developing French language proficiency through related vocabulary.*		1	■	■	■	■
442630	**German Film** *A one-year course structured for all levels from beginner to advanced. Students will learn words and phrases for basic concepts and how to communicate in common situations. There is an emphasis on communication, but grammar will also be addressed. The specific focus is on developing German language proficiency through films from German-speaking countries and educational German-language television series.*		1	■	■	■	■
440000	**Spanish 1** *A one-year course structured for beginners with no experience with the Spanish language or culture. Students will learn necessary words and phrases for basic concepts such as the alphabet, numbers, weather, and telling time. Students will also learn to communicate both orally and written about topics like describing themselves, what they do and what they like, their school, their home, their goals, and the world around them. While grammar may be minimally addressed, this course is primarily to build vocabulary usage.*		1	■	■	■	■
540100	**Spanish 1 Native Speakers** *Level 1 for heritage language learners who have previous experience with Spanish language in the home or whose home language is indicated as Spanish.*		1	■			

540110	**Honors Spanish 2 Native Speakers** *Level 2 for heritage language learners who have previous experience with Spanish language in the home or whose home language is indicated as Spanish.*		1		■	■	■
440021	**Honors Spanish 2** *Spanish language acquisition for novice to intermediate learners with emphasis on developing Spanish proficiency for success in AP courses.*	SPANISH I	1		■	■	■
440031	**Honors Spanish 3** *Further Spanish language acquisition for novice to intermediate learners with emphasis on developing Spanish proficiency for success in AP courses.*	SPANISH 2	1			■	■
540070	**AP Spanish Language** *Intended to develop proficiency and integrate language skills using authentic materials and sources in preparation for the AP Spanish Language and Culture Exam.*		1		■	■	■
540080	**AP Spanish Literature** *Intended to develop proficiency and integrate language skills using authentic materials and sources in preparation for the AP Spanish Literature Exam.*		1		■	■	■

JROTC

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
480950	**Army ROTC Health** *Meets state graduation requirement for Health & Safety credit*		.5	■	■	■	■
485950	**Army ROTC PE** *Meets state graduation requirement for Physical Education credit*		.5	■	■	■	■
495790	**Army ROTC 1** *Responsible leadership roles, rights and privileges as American citizens.*	JROTC I	1	■	■	■	■
495800	**Army ROTC 2** *Responsible leadership roles, rights and privileges as American citizens.*	JROTC 2	1		■	■	■
495810	**Army ROTC 3** *Responsible leadership roles, rights and privileges as American citizens.*	JROTC 3	1			■	■
495890	**Army ROTC 4** *Senior cadets serve/learn as commanders and as cadet staff officers at battalion level.*		1				■

FAMILY AND CONSUMER SCIENCES

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
493080	**Family and Consumer Science** *Designed to provide students with basic information and skills needed to function effectively within the family and within a changing, complex society.*		1	■	■	■	■
493111	**Food Safety & Nutrition** *Skills needed to select, prepare, and serve food to meet nutritional needs of individuals and families.*		1		■	■	■
493120	**Food Production, Management & Services** *Development of competencies related to employability; technology in food production, management, and services; sanitation and safety; nutrition as related to food service; servicing of food; purchasing, receiving, and storing of food supplies; production and management of food; use, care, and storage of large and small commercial foodservice equipment; menu planning; and modified diets.*	FOOD SAFETY	1			■	■

493270	**Culinary II** *One-year course designed to expand students' knowledge in the culinary arts profession. Emphasis is on the study of sauces, garde-manger, advanced meat preparation, advanced poultry preparation, fish and shellfish, candy making, chocolate, advanced baking and pastries, plating, presentation and garnishing, and career opportunities. Upon completion of this course, students should have obtained the basic skills needed for employment in the food service industry or further education in culinary arts.*	FOOD PROD	1				■
493310	**Consumer Services** *A project-based course that introduces applications within the consumer service industry. Students will obtain a broad-based knowledge in consumer products and industry equipment. Upon completion of this course students will be able to obtain and maintain a profession in consumer services, demonstrate presentations to consumers, and recognize and apply current ethical and legal practices in consumer services. Course content includes using technology to manage different aspects of consumer services to meet consumer expectations and to utilize consumer information and resources. (Level Two)*	FACS	1		■	■	■
490910	**Advanced Consumer Services** *(Level Three) This year long course is the continuation of Consumer Services. Students will go in more depth and be immersed into the industry.*	CONSUMER SERV	1			■	■
490890	**Fashion & Interior Design** *Designed to assist students in developing skills necessary for management of individual and family wardrobes, for decision making as a clothing consumer, and for understanding the role of the clothing and textile industry in the economy.*		1		■	■	■
490900	**Advanced Fashion & Interior Design** *A creative course in which students will learn the elements, principles and psychology of design. Students will then be given the freedom to apply these concepts in the areas of both fashion and interiors. In addition, students will explore careers in both fields.*	FASHION & INT. DESIGN	1			■	■
493020	**Child Growth & Development** *Child Growth and Development students study the physical, intellectual, social, and emotional development of a child from conception to five years of age. This course teaches parenting and caregiving roles in relation to the developing child as well as guiding them in the learning process.*		1	■			
493242	**Introduction to Education** *A class to prepare high school students to become prospective teachers. Areas of study include Foundations of American Education, professional behavior, student diversity, instructional methods, communication skills, and reflective practices that support learning. All students enrolled in this class are required to engage in 30 hours of field experience. (Level One)* *Students who score 19 or higher on the Reading section of the ACT will be eligible for CONC credit.*		1		■	■	■
493290	**Education Technology** *Project based course that introduces students to the role of technology in the classroom. Students will explore various digital learning tools used in online, face-to-face, and hybrid learning environments. Students will develop skills and strategies needed to integrate technology into the classroom and develop methods of digital communication and collaboration. Field experience will include both online and face-to-face classroom observations. All students enrolled in this class will be required to engage in 25 hours of field experience. (Level Two)* *Students who score 19 or higher on the Reading section of the ACT will be eligible for CONC credit.*	INTRO TO EDUCATION	1			■	■

BUSINESS & MARKETING TECHNOLOGY

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
492120	**Survey of Business** *Business applications necessary to live and work in a technological society. This course is required for all business completers and it is recommended that the course be taken before other business courses.*		1	■	■	■	■

492100	**Computerized Accounting 1** *A two-semester course emphasizing basic accounting principles and preparing students for success in college level accounting. Entry-level skills in the accounting profession may be obtained.*		1		■	■	■
492110	**Computerized Accounting II** *A two-semester course emphasizing advanced accounting principles.* ******can take the place of a 4th year math requirement (past Algebra II).***	ACCT I	1			■	■
492693	**Medical Office Administration** *This course covers basic skills in word processing, database,spreadsheet, presentation, desktop publishing, 10-key calculating, recordkeeping, communicating and transcribing as well as decision making, critical thinking, teamwork and ethics.*	SURVEY OF BUSINESS	1		■	■	■
492070	**Business Law 1** *Designed to acquaint the student with some of the legal problems and rights encountered in business transactions. (Fall only)*		.5		■	■	■
492080	**Business Law 2** *Extension of Business Law I. (Spring only)*	BUSINESS LAW I	.5		■	■	■
491990	**Personal Finance** *Prepares students for the responsibilities each of them will face in the "real world" at one time or another. Topics covered include banking, payroll calculations, how to prepare and file personal tax returns, and how to develop and operate under a budget; saving and investing, credit management, and many more. Students will also prepare for the national Financial Literacy Exam given at the end of the semester.*		.5				■

PRE-ENGINEERING

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
495480	**Introduction to Engineering Design** *Students will work both independently and in teams as they learn problem-solving skills using the design process. They get to use industry-standard 3D modeling software to create their own designs including puzzle cubes, Automoblox vehicles,miniature trains, and their own creation which can be printed out on our 3-D printer. (Level One)*		1	■	■	■	■
495490	**Principles of Engineering** *Students are exposed to the basic principles of electrical, chemical, civil, and mechanical engineering disciplines and apply their learning by building and programming VEX robotics structures, such as chocolate chip cookie topper, surgical robot arm, marble sorter, soccer goal light, compound lifting mechanism, 3-floor elevator, and donut-delivering robot.* ******can take the place of the 3rd year science requirement per ADE.*****. *(Level Two)*	INTRO ENG DESIGN	1		■	■	■
495450	**Computer Integrated Manufacturing** *Students will learn about modern manufacturing processes by utilizing a variety of software skills, the CAD skills they learned in IED, and CAM (which takes a CAD drawing file and uses the information to create g-code). A CNC machine then follows the instructions in the g-code and uses lasers or water jets to cut away metal from the stock block to physically create the machined part the student designed in CAD...a really neat process! Students will also build and program prototype manufacturing systems using VEX equipment, a Lynxmotion robot arm, and ROBOT-C programming they learned in POE. This course teaches skill sets in high demand by several manufacturers in the River Valley area.* ******can take the place of the 3rd year science requirement AND is weighted with a 5.0 by the ADE.***** *(Level Three)*	PRIN OF ENGIN	1			■	■
495471	**Engineering Design & Development** *In this capstone course, students apply the engineering design process and perform research to choose and justify a technical problem. The teams design, acquire materials, build, and test their solutions while working closely with industry professionals who provide mentoring opportunities. Finally, the student teams formally present and defend their original solution to an outside*	COMP INTEGRATED MANU	1				■

	panel. ******can take place of the 4th year math requirement (past Algebra II).*****						

COMPUTER SCIENCE

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
465070	**Programming Year 1** *Exposes students to a diverse set of computational thinking concepts, fundamentals, and tools, allowing them to gain understanding and build confidence. Students use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python® to create apps and develop websites, and learn how to make computers work together to put their design into practice. They apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them. Students will work with MIT App Inventor, VEX Robots and text based programming (Python). (Level One)* ******can take the place of a 3rd year science OR a 4th year math per ADE***		1	■	■	■	■
465080	**Programming Year 2** *Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. While this course can be a student's first in computer science, students without prior computing experience are encouraged to start with Introduction to Computer Science. Projects and problems include: printing images using python text based languages, visualization of data, basic python games, cybersecurity, how the internet works, creating customer coder, using sensors and the data from those sensors, and real world simulations. (Level Two)* ******can take the place of a 3rd year science OR a 4th year math per ADE***	PROG I	1		■	■	■
565130	**AP Computer Science A** *Introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures. (Level Three))* ******can take the place of a 3rd year science OR a 4th year math per ADE***		1		■	■	■
465270	**Cybersecurity Year 1** *Whether seeking a career in the growing field of cybersecurity or learning to defend their own personal data or a company's data, students in Cybersecurity establish an ethical code of conduct while learning to defend data in today's complex cyber world.* ******can take the place of a 3rd year science OR a 4th year math per ADE***		1		■	■	■
465280	**Cybersecurity Year 2** *Part two of Cyber Security 1.* ******can take the place of a 3rd year science OR a 4th year math per ADE***	CYBER SEC. I	1			■	■
465290	**Cybersecurity Year 3** *Part 3 of Cybersecurity* ******can take the place of a 3rd year science OR a 4th year math per ADE***	CYBER SEC. 2					■
465570	**Robotics- Year 1** *Introductory level coding course. Students learn Python and C/C++ and in the context of programming a Vex 5 robot. For students interested in competition robotics, this course is recommended.*		1		■	■	■
465580	**Robotics- Year 2** *Advanced coding course. Students learn Python and C/C++ and in the context of programming a Vex 5 robot. For students interested in competition robotics, this course is recommended.*		1			■	■

BIOMEDICAL

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
495000	**Principles of Biomedical Sciences** *Students analyze the evidence found at a crime scene and help the medical examiner uncover clues*						

	both on and off the body to solve a mystery. Taking on the role of medical professionals, students will access, diagnose, conduct and analyze tests, and care for patients in a variety of situations.		1	■	■		
495010	**Human Body Systems** *Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis in the body. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.* ******can take place of the 3rd year science requirement for graduation per ADE.*****	PBS IF WANTING TO TAKE IN 10TH GRADE	1		■	■	■
495020	**Medical Interventions** *Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.*	HBS	1			■	■
495030	**Biomedical Innovations** *The final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent project with a mentor or advisor from a university, medical facility, or research institution.*	MED INT.	1				■

AGRICULTURAL SCIENCE

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
491150	**Survey of Ag Systems** *A foundation course for all agricultural programs of study. Topics covered include general agriculture, FFA, leadership, supervised agricultural experiences, animal systems, plant systems, agribusiness systems, food products and processing systems, biotechnology, natural resources systems, environmental service systems and power, structural and technical systems.*		1	■	■	■	■
491170	**CASE Principles of Agri Science (Plant)** *a foundation-level course teaching students the form and function of plant systems. Students experience various plant science concepts through inquiry-based exercises filled with activities, projects, and problems utilizing laboratory and practical experiences. Student experiences will include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting.* ******can take place of the 3rd year science requirement and is weighted with a 5.0 by the ADE.***** *(Level Two)*	SURV OF AG OR ANFR	1		■	■	■
491470	**CASE Natural Resources & Ecology** *An agricultural class for students who are interested in earth sciences and man's interactions with nature.* ******can be used as the 3rd science requirement for graduation and is weighted with a 5.0 by the ADE.****. (Level Two)*	SURV OF AG OR ANFR	1		■	■	■
490800	**Advanced Plant Science** *This course allows for an in-depth look at the Plant Science Industry while providing hands-on laboratories and opportunities to participate in FFA and Supervised Agricultural Experiences. (Level Three)*	SURV OF AG & PRIN OF AG	1			■	■
491260	**Forestry and Wildlife Ecosystems** *This course provides an overview of the forestry and wildlife industry and it's important to the economy of the nation. Tree and wildlife identification, management practices, harvesting and marketing processes, and business applications are major topics.(Level Three)*	SURV OF AG & NRE	1			■	■

PERFORMING ARTS

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
459100	**Theatre 1** *Introduction to theatre, acting, stage design and stage production. Counts as a Fine Arts credit.*		1	■	■	■	■
459110	**Theatre II** *Advanced level performance based course, working in depth on acting and breathing techniques.*	THEATRE I	1		■	■	■
459120	**Theatre III** *Advanced level performance based course, working in depth on acting, directing, resume building, college and work preparation.*	THEATRE 2	1			■	■
459130	**Theatre IV** *Senior level performance based course, working in depth on acting, directing, resume building, college and work preparation*	THEATRE 3	1				■
459240	**Technical Theatre t I** *Intermediate technical theatre, sound, lighting, costumes, props and design work.*	THEATRE I	1		■	■	■
459250	**Technical Theatre II** *Advanced technical theatre, sound, lighting, costumes, props and design work.*	STAGE CRAFT I	1			■	■
459260	**Technical Theatre III** *Advanced technical theatre, Stage and technical design along with stage management.*	STAGE CRAFT II	1				■
453130	**Theatre Appreciation** *Introduction to theatre, playwriting, designing, and directing.*		.5	■	■	■	■

VISUAL ARTS

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
450060	**Art History** *A history course focusing on art starting in pre-history leading to Renaissance. Some art making required.*		.5	■	■	■	■
453100	**Visual Art Appreciation** *Students will discuss art and make artwork in various media.*		.5		■	■	■
450000	**Visual Art Foundations 1** *This course is the prerequisite for ALL other art making courses. Students will use a variety of media, techniques, processes, and tools to create original artworks. Students will learn basic concepts to build foundation for other courses*		1	■	■	■	■
450200	**Drawing 1** *As students progress through each art course, they will develop, expand and increase real life applications of problem solving through drawing.*	VISUAL ART I	1		■	■	■
450210	**Drawing 2** *As students progress through each art course, they will develop, expand and increase real life applications of problem solving through drawing*	VISUAL ART I & DRAWING I	1			■	■
450400	**Painting 1** *As students progress through each art course, they will develop, expand and increase real life applications of problem solving through paintings*	VISUAL ART I	1		■	■	■
450410	**Painting 2** *As students progress through each art course, they will develop, expand and increase real life applications of problem solving through paintings.*	VISUAL ART I & PAINTING I	1			■	■
450500	**Ceramics 1** *As students progress through each art course, they will develop, expand and increase real life applications of problem solving by making sculptures and pottery out of clay.*	VISUAL ART I	1		■	■	■
450510	**Ceramics 2** *As students progress through each art course, they will develop, expand and increase real life applications of problem solving by making sculptures and pottery out of clay.*	VISUAL ART I & CERAMICS I	1			■	■

450600	**Sculpture 1** *As students progress through each art course, they will develop, expand and increase real life applications of problem solving by making sculptures out of many different materials including, wire, wood, found objects, and clay.*	VISUAL ART I	1		■	■	■
559040	**AP Drawing** *Rigorous art making course with a college level focus on design skills and development of a portfolio for AP evaluation. Recommended "B" or better in Visual Art Foundations or other art courses.*	VISUAL ART I	1			■	■
559050	**AP 2-D Art & Design** *Rigorous art making course with a college level focus on 2-D design and development of portfolio for AP evaluation. Recommended "B" or better in Visual Art 2.*	VISUAL ART I OR OTHER ART COURSE	1			■	■
559060	**AP 3-D Art & Design** *Rigorous art making course with a college level focus on 3-D design and development of a portfolio for AP evaluation. Recommended "B" or better in Visual Art Foundations or other art courses.*	VISUAL ART I OR OTHER ART COURSE	1			■	■

MUSIC

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
451009	**Band 1** *Performing group participating in local, regional, state and national contests, concerts, band auditions, solo, and ensemble acts. Good standing in Jr Band or audition required. Enrollment in both fall and spring semester required.*		1	■			
451041	**Band 2** *Performing group participating in local, regional, state and national contests, concerts, band auditions, solo, and ensemble acts. Enrollment in both fall and spring semester required.*	BAND I	1		■		
451050	**Band 3** *Performing group participating in local, regional, state and national contests, concerts, band auditions, solo, and ensemble acts. Enrollment in both fall and spring semester required.*	BAND 2	1			■	
451060	**Band 4** *Performing group participating in local, regional, state and national contests, concerts, band auditions, solo, and ensemble acts. Enrollment in both fall and spring semester required.*	BAND 3	1				■
452051	**Tenor/ Bass Choir** *Performance group to learn and perform all types of Choral literature and perform and compete at the regional, state, and national level.*		1		■	■	■
452052	**Treble Choir**. *Performance group to learn and perform all types of Choral literature and perform and compete at the regional, state, and national level.*		1		■	■	■
452060	**Chamber Choir** *Advanced ensemble, public performances, concerts, individual & festival competitions required.*	AUDITION	1		■	■	■
453030	**Music Appreciation** *Students will study general music forms.*		.5		■	■	■

PHYSICAL EDUCATION

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
480000	**Health** *Personal health, safety and fitness, including first aid, nutrition, drug and alcohol abuse, STD's, eating disorders, mental disorders, First Aid & CPR.*		.5	■	■	■	■
68500A	**Archery** *Introduction to the sport by learning about bows, arrows and shooting at targets.*		1	■	■	■	■

68500F	**Sport Fishing** *Introduction to fishing via the picking of lure for certain fish, water temp and learning to fish.*		1		■	■	■
68500P	**Pickleball** A fun sport that uses a small paddle and a plastic ball with holes. It combines many elements of tennis, badminton, and ping-pong.		1		■	■	■
685000	**Physical Activity** *Active participation in aerobic, strength training, and flexibility development; various individual and team activities.*		1	■	■	■	■
68500T	**Total Fitness** *A workout course that includes cardio and weight training.*		1		■	■	■
485020	**Recreational Sports** *Pick up basketball, disc golf, corn-hole, dodgeball, kickball, and other indoor and outdoor sports*		1		■	■	■

ATHLETICS

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
999820	**Baseball** *Two semester sport.*		1	■	■	■	■
999810	**Basketball Boys** *Two semester sport.*		1	■	■	■	■
999811	**Basketball Girls** *Two semester sport.*		1	■	■	■	■
999850	**Cheerleading** *Two semester sport*		1	■	■	■	■
999812	**Cross Country Boys** *Fall semester sport*		.5	■	■	■	■
999813	**Cross Country Girls** *Fall semester sport*		.5	■	■	■	■
999851	**Dance** *Two semester sport*		1	■	■	■	■
999814	**Football** *Two semester sport*		1	■	■	■	
999815	**Football** *Fall semester sport;* ***12TH grade***		.5				■
999821	**Golf** *Two semester sport*		1	■	■	■	■
999822	**Softball** *Two semester sport*		1	■	■	■	■
999823	**Soccer – Boys** *Two semester sport*		1	■	■	■	■
999824	**Soccer – Girls** *Two semester sport*		1	■	■	■	■
999825	**Tennis** *Two semester sport*		1	■	■	■	■
999816	**Track – Boys** *Spring semester sport*		1	■	■	■	■
999817	**Track – Girls** *Spring semester sport*		1	■	■	■	■
999826	**Volleyball** *Two semester sport.*		1	■	■	■	■
999827	**Wrestling** *Two semester sport.*		1	■	■	■	■
696005	**E-sports** *Two semester sport in the computer lab; competitive video gaming.*		1		■	■	■

MISCELLANEOUS

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
496010	**Community Service Learning Credit** *A student who has completed a minimum of seventy-five (75) clock hours of documented community service in grades 9-12 at any Ade certified service agency or a part of a service-learning school program shall be eligible to receive one academic credit that may be applied toward graduation.*		1	■	■	■	■
493860	**Internship** *The Internship course is a paid or unpaid experiential learning experience. The course will serve as an introductory work experience course for 12th grade students. A student may enroll in the Internship course for up to two years and earn a maximum of four credits. This course is not considered an elective course for CTE completer status. The Internship course includes both classroom instruction and worksite experience. The student and Internship teacher must develop an Internship agreement. The Internship teacher and the workplace mentor will evaluate the student. The students must be employed prior to enrolling in the class.*	JOB REQUIRED	TBD				■
696003	**ACT Prep** *One semester course designed to help students achieve a composite score of at least"19" on the ACT. Focus will be to improve students in weak areas of the test by breaking down the semester into 9 week focus areas.*		.5		■	■	■
690040	**Drivers Education** *30 hours of classroom instruction & practical driving experience, local credit only.*	PERMIT REQUIRED	.5			■	■
480000	**Health** *Personal health, safety and fitness, including first aid, nutrition, drug and alcohol abuse, STD's, eating disorders, mental disorders, First Aid & CPR.*		.5	■	■	■	■

VIRTUAL ARKANSAS ELECTIVE COURSES

*See Supplemental Catalog. Fees may vary.

Concurrent College Courses

**A 3-Credit hour college course equals one high school credit.*

IN PERSON ATU & UAFS CONCURRENT COURSES

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
585900 ARKANSAS TECH	**Concurrent Physical Education** *One semester course. ACT Scores of 19 in Reading and English are required.*	ACT 19 READ	1			■	■
580900 ARKANSAS TECH	**Concurrent Health** *One semester course. ACT Scores of 19 in Reading and English are required.*	ACT 19 READ	1			■	■
590820 UA	**Fundamentals of Electricity** *A study of the fundamental principles of AC and DC, Ohm's law, and the power equation. Series, parallel, series parallel circuits, and DC meters are introduced. Students will learn how circuits work and how to troubleshoot any problems with the circuit, which will help them in the following semester with their soldering projects. THIS COURSE IS A Prerequisite TO ALL OTHER COURSES*	ACT 19 READ , ENG & MATH	.5		■	■	■
590830 UA	**Intro to Electronics Technology and Robots** *The course will develop the skills required to solder and solder electronic devices and circuit board mounted components, and will require the student to master the use of common electronic instruments in order to measure and troubleshoot*						

	circuits. In addition, students will learn to correctly select components and build a circuit on a bread board by following a schematic diagram. Students will demonstrate their soldering skills by successfully completing 3 soldering projects (My Place, Awesome USA, and The Awesome Cube) using both through-hole and surface mount soldering. Teaches the basic operation and programming of the six-axis ABB robotic arm using a teach pendant. The manufacturing engineer or technician of today is faced with the selection, operation, programming, and troubleshooting of robot systems on a factory floor. In the manufacturing facilities of the future, robotic literacy may become as important as personal computer literacy has become in the office of today. This class is very hands-on and a favorite among the students.	FUND OF ELEC	.5		■	■	■
590850	**Electrical Circuits & Components** *Details how individual components react to AC and DC. Includes the study of inductors, transformers, capacitors, R-C circuits, R-L circuits, R-L-C circuits, time constants, series parallel, resonant circuits, and filters.*	FUND OF ELEC	.5			■	■
590840	**Industrial Electricity** *Covers fundamentals of motors and motor control. Includes switches, relays, transformers, three-phase power systems, DC motors, single-phase motors, three-phase motors, overload protection, and motor controllers. The National Electrical Code standards for all circuits are emphasized.*	FUND OF ELEC	.5			■	■
592631	**PLC Applications** *Provides the student with an overview of the selection, programming, and operations of programmable logic controllers (PLCs). The student will learn how to program PLCs using "ladder logic" diagrams in computer simulations (utilizing LogixPro software) and then in the actual hardware wired up to a relay control system (which the students previously learned how to use in the Industrial Electricity course).*	FUND OF ELEC	.5			■	■
592600	**Robot Operations & Maintenance** *Teaches more advanced operation and programming of the 6-axis ABB robotic arm using a teach pendant as well as basic maintenance procedures. Students will create programs for the robot arm to perform various tasks of their choosing (such as making waffles, dealing cards, playing Jenga, or making a strawberry and banana smoothie).*	FUND OF ELEC	.5			■	■

WESTERN ARKANSAS TECHNICAL CENTER

**See Mrs. Nelson in the Counseling Office for information and to apply.*

COURSE CODE	COURSE DESCRIPTION	PREREQUISITE	CREDITS	9	10	11	12
	Automotive Technology *The increasing sophistication of automotive technology now requires workers who can use computerized shop equipment and work with electronic components, while maintaining their skills with traditional hand tools. The ability to diagnose the source of a problem quickly and accurately requires good reasoning ability and a thorough knowledge of automobiles. Students will learn how to inspect, maintain and repair vehicles.* ***Courses include:*** *Automotive Theory and Maintenance*,Intro to Transmissions and Drive Trains, Braking Systems, Automotive Engines, Automotive Electrical Systems, Emission Control Systems I, Suspension and Steering, Automotive A/C and Heating, *NOTE: This course must be passed with a "C" or better to continue in the automotive program.*					■	■
	Computer Aided Design (CAD) *Students in this two-year program begin by learning traditional board drafting methods and progress to the use of state-of-the-art equipment to produce beginning-level engineering graphics. Students who successfully complete both years of the program earn 31 hours of college credit. Good candidates for the CGT program will have strong math ability as well as mechanical and visual aptitude.* ***Courses Include:*** *Engineering Graphics I*, 3D Visualization,CAD-2D Design Level I*, CAD Concepts and Applications, Digital Design I—Digital Design II, and character Animation. *NOTE: This course must be passed with a "C" or better to continue in the CADD program.*					■	■
	Electronics Technology *Repair, install, or maintain industrial production and processing machinery. Students will obtain knowledge of*					■	■

	the practical application of engineering, science, and technology, including applying principles, techniques, procedures, and equipment to the design and production of various goods and services. Students learn the latest robotic technology and gain practical application experience in a state of the art robotics lab at UAFS.						
	Certified Nursing Assistant (CNA) *CNA offers students the opportunity to learn a variety of health careers and basic medical terminology. They also gain hands-on experience in a clinical setting and work directly with residents of local long-term care facilities. Upon successful completion of this one-year program, students may fulfill requirements to take the CNA certification exam.*					■	■
	Emergency Medical Responder *This program offers students exposure to the learning requirements and atmosphere of emergency medicine. Students will learn proper trauma care,patient assessment techniques, pharmacological interventions and emergency medical services. The program prepares students for the Emergency Medical Technology-Basic course offered at UAFS. Students who successfully complete the EMR program will be awarded a certificate of completion.*					■	■
	Medical Office Assistant *Students learn to assemble patient health information, ensure proper completion of all forms, and record information using various computer systems. In addition, students will learn proper management of patient records, medical coding and billing, and computer applications. The curriculum in the medical office assistant program emphasizes high standards of proficiency in communication, technology, and information management.*					■	■
	Practical Nursing*Practical Nursing students begin their program of study with academic classes about anatomy and medical terminology. In the second semester, students advance to nursing coursework and clinical experiences in the nursing care of clients at local hospitals and nursing homes. At the successful completion of this two-year program, students will be eligible to take the Licensed Practical Nurse certification exam.*					■	■
	Computer Engineering / Information Technology *Create the structures, tools, forms, and reports necessary to using and understanding data analysis in the workplace. Students in this program will understand the basics of needs analysis, database design and modeling, implementation, testing, and maintenance. Additional courses and competencies include the fundamentals of programming, coding, and networking. College level scores in Reading, English, and Math are required to enter the computer engineering program.*					■	■
	Unmanned Aerial Systems*Unmanned Aerial Systems incorporates coursework in operations, maintenance, regulations, data collection, and data analytics of remotely piloted aircraft, and prepares students to use the technology across various industry sectors through either an operations or analyst concentration. Utilizing simulated learning systems, instructors can track students' flight times and insert scenarios to ensure they are collecting the data appropriately and safely. Whether it's a bridge inspection or a wind turbine, the simulators allow the program to create the most realistic environment for hands-on learning with the numerous and varied interactive training modules.*					■	■
	Welding Technology *In the welding technology program, students learn basic and advanced welding in three areas (arc, tungsten inert gas, metal inert gas) and basic welding in layout and fabrication. Students must develop skills that meet the American Welding Society certification test standards for both structural and high-pressure vessel welding. Upon successful completion of both years of the program, students may earn certificates of proficiency in ARC,TIG, and MIG.*					■	■