

2022-2023 COURSE CATALOG



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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 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 the 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.



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, Freshman Composition I, and Freshman Composition II.



Indicates concurrent credit courses through University of Arkansas Fort Smith. Students can earn 3 college credits towards transferable college transcript at half tuition cost. Courses include: Government & Politics for American National Government credit.

<h2 style="text-align: center;">General (Core) Diploma</h2>	<h2 style="text-align: center;">Smart Core Diploma</h2>	<h2 style="text-align: center;">Diplomas of Distinction</h2>
<p>English—4 Credits English 9 English 10 English 11 English 12</p> <p>Mathematics—4 Credits Algebra I Geometry Algebra II Additional Math</p> <p>Science—3 Credits At least one unit of Physical Science At least one unit of Biology Additional Science</p> <p>Social Studies—3 Credits Civics .5 credit Economics .5 credit World History American History</p> <p>State Required Oral Communications .5 credit Physical Education .5 credit Health and Safety .5 credit Fine Arts .5 credit</p> <p>Digital Learning Course</p> <p>Career Focus Electives - 6</p> <p style="padding-left: 40px;">*Technology (Local Credit) *Principal Approval</p> <p>*22 Credits needed to Graduate</p>	<p>English—4 Credits English 9 English 10 English 11 English 12</p> <p>Mathematics—4 Credits Algebra I Geometry Algebra II ADE approved fourth Math credit or Computer Science Flex</p> <p>Science—3 Credits ADE approved Physical Science ADE approved Biology ADE approved third Science or Computer Science Flex</p> <p>Social Studies—3 Credits Civics .5 credit Economics .5 credit World History American History</p> <p>State Required Oral Communications .5 credit Physical Education .5 credit Health and Safety .5 credit Fine Arts .5 credit</p> <p>Digital Learning Course</p> <p>Career Focus Electives - 6</p> <p style="padding-left: 40px;">*Technology (Local Credit) Principal Approval</p> <p>*22 Credits needed to Graduate</p>	<p style="text-align: center;">(Local Honor Diplomas) College Prep</p> <p>Smart Core curriculum including:</p> <ul style="list-style-type: none"> ● 23 Credits ● 4 Honors (PAP) , Concurrent or state endorsed weighted credit courses ● 3.0 GPA at the end of 8 semesters <p style="padding-left: 40px;">*Technology (Local Credit) Principal Approval</p> <p style="text-align: center;">College Prep Honors</p> <p>Smart Core curriculum including:</p> <ul style="list-style-type: none"> ● 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 <p style="padding-left: 40px;">*Technology (Local Credit) Principal Approval</p> <p style="text-align: center;">College Prep High Honors</p> <p>Smart Core curriculum including:</p> <ul style="list-style-type: none"> ● 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 <p style="padding-left: 40px;">*Technology (Local Credit) Principal Approval</p> <p>23 Credits needed to Graduate</p>

ARKANSAS GRADUATION REQUIREMENTS

SMART CORE INFORMATION

For current Arkansas Graduation Requirements, please visit <http://bit.ly/ARGradReq>

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** – (optional) 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 I/II

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

Career & Technical Education Course Offerings

The Arkansas Department of Career Education and VBSD recognize students who complete a career focus program of study as "Completers". Completers receive a certificate from the Arkansas Governor, and wear green and white honors cords at graduation. Students are encouraged to select their career focus electives for graduation from one of the following programs of study.

Agricultural Science							
Course Code	Course Description	Pre-R	CR	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			■	■

Business & Marketing Technology							
Course Code	Course Description	Pre-R	CR	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	■	■	■	■

Accounting							
Course Code	Course Description	Pre-R	CR	9	10	11	12
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			■	■

Medical Office Administration							
Course Code	Course Description	Pre-R	CR	9	10	11	12
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.	Surv 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)				■	■	■
492080	Business Law 2 Extension of Business Law I. (Spring only)	BL I	.5		■	■	■
491990	Personal Finance Gain confidence in your ability to understand and communicate financial results		.5				■

Family & Consumer Sciences

Course Code	Course Description	Pre-R	CR	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			■	■

Education and Training

493020	Life Span Development (Level One) 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	Orientation to Teaching I Course is designed to provide students with knowledge to prepare them as future teachers. Students will develop an understanding of their role as a teacher, research the developmental characteristics of learners, identify effective teaching strategies, and creatively deliver lessons. (Level Two)		1		■	■	■
493290	Orientation to Teaching II This course integrates psychological, sociological, and philosophical foundations which prepare students for positive field experiences. Students will develop working knowledge of and employability skills for the education profession as they work toward paraprofessional certification. (Level Three)	Orientation to Teaching I	1			■	■
579120	AP Psychology This two semester class covers the same material presented in a college level introductory psychology class. (Can use as level three course in this pathway.)		1			■	■

Junior Reserve Officer Training Corps

Course Code	Course Description	Pre-R	CR	9	10	11	12
480950	Army ROTC Health Meets state graduation requirement for Health & Safety credit (must have completed two credits of JROTC)		.5			■	■
485950	Army ROTC PE Meets state graduation requirement for Physical Education credit (must have completed two credits of JROTC)		.5			■	■
495790	Army ROTC 1 Responsible leadership roles, rights and privileges as American citizens.		1	■	■	■	■
495800	Army ROTC 2 Responsible leadership roles, rights and privileges as American citizens.	JROTC 1	1		■	■	■
495810	Army ROTC 3 Responsible leadership roles, rights and privileges as American citizens.	JROTC 2	1			■	■
495890	Army ROTC 4 Senior cadets serve/learn as commanders and as cadet staff officer at battalion level.	JROTC 3	1				■

Pre-Engineering - Project Lead The Way

Course Code	Course Description	Pre-R	CR	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 toppler, 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 Des	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 Eng	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 panel. **Can take place of the 4th year math requirement (past Algebra II).**	CIM	1				■

Computer Science – Project Lead The Way

Course Code	Course Description	Pre-R	CR	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. (Level One) **Can take the place of a 3rd year science OR a 4th year math per ADE**		1	■	■	■	■
465080	Programming Year 2 Part two of Programming & Coding 1 (CSE). (Level One) **Can take the place of a 3rd year science OR a 4th year math per ADE**	Coding 1	1		■	■	■
465090	Programming Year 3 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 app development, visualization of data, cybersecurity, and simulation. (Level Two) **Can take the place of a 3rd year science OR a 4th year math per ADE**	Coding 2	1			■	■
565130	AP Computer Science 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**	Coding 2	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. 1	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.		1		■	■	■
465580	Robotics- year 2 advanced coding course. Students learn Python and C/C++ and in the context of programming a Vex 5 robot.		1			■	■

Biomedical – Project Lead The Way

495000	Principles of Biomedical Sciences Students analyze the evidence found at a crime scene and help the medical examiner uncover clues left on a body to solve a mystery. Questioning, diagnosing, and proposing treatment and care for patients, students track down the source of a		1	■	■		
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	<i>mysterious outbreak at a local hospital. Taking on the role of medical professionals, students access and stabilize a patient during an emergency and prepare for medical surge and mobile medical care.</i>						
495010	Human Body <i>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.**</i>	PBS if wanting to take as a sophomore	1		■	■	■
495020	Medical Interventions <i>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.</i>	HBS	1			■	■
495030	Biomedical Innovations <i>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.</i>	M Int.					■

Fine Arts Course Offerings

Instrumental Music

Course Code	Course Description	Pre-R	CR	9	10	11	12
451009	Band 1 <i>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.</i>		1	■			
451041	Band 2 <i>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.</i>	Band 1	1		■		
451050	Band 3 <i>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.</i>	Band 2	1			■	
451060	Band 4 <i>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.</i>	Band 3	1				■

Choir

Course Code	Course Description	Pre-R	CR	9	10	11	12
452051	Tenor/ Bass Choir <i>Performance group to learn and perform all types of Choral literature and perform and compete at the regional, state, and national level.</i>		1		■	■	■
452052	Treble Choir. <i>Performance group to learn and perform all types of Choral literature and perform and compete at the regional, state, and national level.</i>		1		■	■	■
452060	Chamber Choir <i>Advanced ensemble, public performances, concerts, individual & festival competitions required.</i>	Audition	1		■	■	■

General Arts

Course Code	Course Description	Pre-R	CR	9	10	11	12
450060	Art History <i>A history course focusing on art starting in pre-history leading to Renaissance. Some art making required.</i>		.5	■	■	■	■
453100	Visual Art Appreciation <i>Students will discuss art and make artwork in various media.</i>		.5		■	■	■
453030	Music Appreciation <i>Students will study general music forms.</i>		.5		■	■	■

Visual Arts

Course Code	Course Description	Pre-R	CR	9	10	11	12
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450000	Visual Art Foundations 1 <i>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.</i>		1	■	■	■	■
450200	Drawing 1 <i>As students progress through each art course, they will develop, expand and increase real life applications of problem solving through drawing.</i>	Visual Art 1	1		■	■	■
450210	Drawing 2 <i>As students progress through each art course, they will develop, expand and increase real life applications of problem solving through drawing</i>	Visual Art or Drawing 1	1			■	■
450400	Painting 1 <i>As students progress through each art course, they will develop, expand and increase real life applications of problem solving through paintings</i>	Visual Art 1	1		■	■	■
450410	Painting 2 <i>As students progress through each art course, they will develop, expand and increase real life applications of problem solving through paintings.</i>	Visual Art 1 & Painting 1	1			■	■
450500	Ceramics 1 <i>As students progress through each art course, they will develop, expand and increase real life applications of problem solving through ceramic works.</i>	Visual Art 1	1		■	■	■
450510	Ceramics 2 <i>As students progress through each art course, they will develop, expand and increase real life applications of problem solving through ceramic works.</i>	Visual Art 1 & Ceramics 1	1			■	■
450600	Sculpture 1 <i>As students progress through each art course, they will develop, expand and increase real life applications of problem solving through sculptures.</i>	Visual Art 1	1		■	■	■
450080	Studio Art 2-D <i>Students will further explore, apply, and move toward a mastery of art in two-dimensional media. This course is fast-paced and great for self-motivated students. This is an excellent course to take alongside an AP Art course, or before taking an AP Art course.</i>	Visual Art 1	.5		■	■	■
450090	Studio Art 3-D <i>Students will further explore, apply, and move toward a mastery of art in three-dimensional media. This course is fast-paced and great for self-motivated students. This is an excellent course to take alongside an AP Art course, or before taking an AP Art course</i>	Visual Art 1	.5		■	■	■
559040	AP Drawing <i>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.</i>	Visual Art 1	1			■	■
559050	AP 2-D Art & Design <i>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.</i>	Visual Art 1 or other art course	1			■	■
559060	AP 3-D Art & Design <i>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</i>	Visual Art 1 or other art course	1			■	■

Performing Arts Theatre									
Course Code	Course Description	Pre-R	CR	9	10	11	12		
459100	Theatre 1 <i>Introduction to theatre, acting, stage design and stage production. Counts as a Fine Arts credit.</i>		1	■	■	■	■		
459110	Theatre II <i>Advanced level performance based course, working in depth on acting and breathing techniques.</i>	Theatre 1	1		■	■	■		
459120	Theatre III <i>Advanced level performance based course, working in depth on acting, directing, resume building, college and work preparation.</i>	Theatre 2	1			■	■		
459240	Stage Craft I <i>Intermediate technical theatre, sound, lighting, costumes, props and design work.</i>	Theatre I	1		■	■	■		
459250	Stage Craft II <i>Advanced technical theatre, sound, lighting, costumes, props and design work.</i>	Stage Craft I	1			■	■		
459260	Stage Craft III <i>Advanced technical theatre, Stage and technical design along with stage management.</i>	Stage Craft II	1				■		
453130	Theatre Appreciation		.5		■	■	■		

World Language Course Offerings

French

Course Code	Course Description	Pre-R	CR	9	10	11	12
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441600	French Foundations A one-semester course structured for beginners with no experience with the French language. Students will learn necessary words and phrases for basic concepts such as the alphabet, numbers, weather, and telling time. Students will also learn how to communicate in common situations, such as introducing themselves and asking for something they need. While grammar may be minimally addressed, this course is primarily to build vocabulary usage.		.5	■	■	■	■
441610	French Art A one-semester course structured for any level after Foundations or Level 1. Students will learn art-related vocabulary and examine and create a variety of French art forms. In addition, students will learn the history of French art and artists.	French Found. or French 1	.5	■	■	■	■
441620	French Traditions A one-semester course structured for any level after Foundations or Level 1. Students will learn about holidays, celebrations and other customs in French-speaking countries. Students will also compare and contrast traditions and social norms in various regions and learn related vocabulary.	French Found. or French 1	.5	■	■	■	■

German

Course Code	Course Description	Pre-R	CR	9	10	11	12
442600	German Foundations A one-semester course structured for beginners with no experience with the German language. Students will learn necessary words and phrases for basic concepts such as the alphabet, numbers, weather, and telling time. Students will also learn how to communicate in common situations, such as introducing themselves and asking for something they need. While grammar may be minimally addressed, this course is primarily to build vocabulary usage.		.5	■	■	■	■
442610	German Table-Top Gaming A one-semester course structured for any level after Foundations or Level 1. Students will play interactive, social games as a setting for using German. Students will also create their own games to play with the class.	German Found. Or German 1	.5	■	■	■	■
442620	German Virtual Tourism A one-semester course structured for any level after Foundations or Level 1. Students will research German-speaking countries and cultures and learn common phrases useful to tourists. The class will culminate in a virtual field trip.	German Found. Or German 1	.5	■	■	■	■

Spanish

Course Code	Course Description	Pre-R	CR	9	10	11	12
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	■	■	■	■
440020	Spanish 2 A one-year course structured for beginners with no experience with the Spanish language or culture which builds and expands on concepts learned in Spanish 1.	SP 1	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.	SPNS 1	1		■	■	■
440021	Honors Spanish 2 Spanish language acquisition for novice to intermediate learners with emphasis on developing Spanish proficiency for success in AP courses.	SP 1	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.	SP 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.	AP Span Lang	1			■	■

Elective Courses

Course Code	Course Description	Pre-R	CR	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		■	■	■
649002	Conversational Spanish Introductory course which emphasizes listening comprehension and speaking in the Spanish language.		.5		■	■	■

English Language Learners

Course Code	Course Description	Pre-R	CR	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 A1			■	■	■
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				■

Language Arts Course Offerings

Course Code	Course Description	Pre-R	CR	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 skill essential for college and career readiness.						■
519940	English Composition I & II Concurrent Credit Study of reading, writing, speaking for concurrent college credit through ATU. Required ACT score of 19 in English AND Reading. Requires approval. (College Credit for English Composition 6 hours).	ACT 19 in Reading & English & 2.0 GPA	2				■
517030	Language & Comp AP College level study of language, rhetoric, and expository writing; preparation for the AP exam.		1				■
414210	Professional Oral Communication This one semester graduation requirement course provides career exploration, interests, and programs of study. Elements of communication		.5	■	■	■	■

Elective Courses

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 to VBHS. Production includes original art, web design, music, filming & editing, public speaking, interviewing, and journalistic writing. This course does require some extracurricular activity.	Jour 1			■	■	■
41501L	Journalism 2 (Livestream and Film) This course will provide students an opportunity to travel to sporting events for FREE and perform the camera work for the VBSD Livestream. Students must be able to drive to take this course. Students will also be given film assignments to leave in 7 th hour and record occasionally. Students will obtain film and editing experience. This course requires extracurricular time. ONLY OFFERED 7th HOUR.		1			■	■

415020	Journalism 3 (Yearbook) Yearbook production with two day summer workshop required; Recommended B in English. (Application only)	Journ 1 (Must Apply)	1		■	■	■	
479050	Academic Study of the Bible A one semester English course that is designed to strengthen students' understanding of the Bible & it's 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 Reading of plays from Ancient Greece to contemporary including: Medea, The Taming of the Shrew, Radio Dramas, Trifles, and August: Osage County.		.5			■	■	
519064	Southern Perspectives Readings of contemporary Southern novels including: The Road, Winter's Bone, Fried Green Tomatoes, and The Help.		.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		■	■	■	

Math Course Offerings

Course Code	Course Description	Pre-R	CR	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 1	1		■		
431002	Honors Geometry Study of dimensional shapes, perimeter, area, volume, triangles, quadrilaterals, polygons, circles, and trigonometric ratios with extensions.	Algebra 1	1	■	■		
432000	Algebra 2 Builds on Algebra 1 to encourage higher order thinking; preparation for Transitions or College Algebra.	Algebra 1 Geometry	1		■	■	
432001	Honors Algebra 2 Builds on Algebra 1 to encourage higher order thinking; preparation for College Algebra/Trig Honors.	Algebra 1 Geometry	1		■	■	
439070	Algebra 3 Increase understanding of algebraic, graphical, and methods to analyze, translate and solve polynomial, rational, exponential, logarithmic functions, matrices and conics.	Algebra 1 Algebra 2 Geometr y	1				■
439071	Honors Advanced Algebra 3 In-depth study of pre-calculus concepts. Satisfies fourth year math required for unconditional admission to Arkansas' colleges and universities.	Algebra 2	1			■	■
439110	Transitional Mathematics Focuses on the key readiness standards from the Common Core Standards. Addresses Algebra I, Geometry, and Algebra II.	Algebra 2	1				■
433000	Pre-Calculus Satisfies the fourth year of mathematics required for unconditional admission to Arkansas' colleges and universities.	Algebra 2	1				■
539900	College Algebra/Trig 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) ACT Math = 19 and Reading = 19.	Algebra 1 Algebra 2 Geometr y ACT19 in Reading & Math	2			■	■
539901	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. May take as a College Credit for College Algebra (3 hours) ACT = Math 19 and Reading = 19. Second Semester course after Pre-Calculus. Offers students an opportunity to increase ACT scores to college ready. (Students cannot choose this course on selection sheet)	Algebra 1 Algebra 2 Geometr y ACT19 in Reading & Math	1				■
534040	Calculus AB AP Students will be exposed to all topics covered a Calculus 1 college course as well as topics to be successful on the Advanced Placement Calculus AB examination. Students can earn up to 4 hours of college credit. Course meets for two periods daily.	College Alg/Trig	1				■
534050	Calculus BC AP Students will be exposed to all topics covered in a Calculus 1 & Calculus 2 college course as well as topics to be successful on the Advanced Placement 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.	College Alg/Trig	1				■
539030	Statistics AP Statistics and probability; preparation for AP exam.	Alg 2	1			■	■

Science Course Offerings

Course Code	Course Description	Pre-R	CR	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 Study of land use, energy generation, and water management. *meets third science graduation requirement		1		■	■	■
421000	Chemistry Integrated Study of atomic structure, chemical reactions, and kinetic theory; Meets third science credit requirement.		1			■	■
42100H	Chemistry Integrated Honors 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 College level study of study of atomic structure, chemical reactions, and kinetic theory with extension projects, labs, and readings; Meets third science credit requirement; preparation for AP exam. Class meets two periods daily.	Algebra 2	1			■	■
422010	Physics Study of the laws that govern the universe. . *meets third science graduation requirement	Algebra 1 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. . *meets third science graduation requirement	Geom, Co-Req Algebra 2	1			■	■
425050	Astronomy Study the local planets, moons, solar system, and galaxy; this course also covers cosmology, the life cycles of stars, and how humans study space. . *meets third science graduation requirement		1		■	■	■

Social Studies Course Offerings

Course Code	Course Description	Pre-R	CR	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		■	■	■
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		■	■	■
471000	World History This two semester course provides an overview of the major world events from the Renaissance period to present day.		1		■	■	■
471001	Honors World History This two semester course provides an overview of the major world events from the Renaissance period to present day. This course also prepares students to be ready to take future college level AP courses.		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 (Meets World History requirement) ACT Reading = 19.	ACT 19 Reading	2			■	■
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 1890 This two-semester course will trace our nation's history from 1890 to present.		1			■	■
579920	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			■	■
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			■	■
579010	American History Through Film This one semester course examines U.S. history by comparing full length feature films with traditional historical materials.		.5			■	■
474600	World Geography This one semester course is an introduction to basics of 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 the gaining a better understanding of different cultural perspectives.		.5		■	■	■

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	■	■	■	■
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			■	■
572040	AP Government & Politics This two semester college level course examines the political aspects of the United States government and its influences. ****this course counts as the civics graduation requirement		1			■	■
474400	Psychology This one semester course focuses on individual behavior and why an individual thinks, feels, and reacts to certain stimuli. Major emphases will be placed on social psychology, research methods, altered states of consciousness, psychological disorders, personality and how the brain works.		.5			■	■
579120	AP Psychology This two-semester class covers the same material presented in a college level introductory psychology class.		1			■	■
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 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.		.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 eventual contributions to the American society.		.5			■	■

Physical Education Course Offerings

Elective Courses							
Course Code	Course Description	Pre-R	CR	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	■	■	■	■
485025	Archery Introduction to the sport by learning about bows, arrows and shooting at targets.		.5	■	■	■	■
485030	Sport Fishing Introduction to fishing via the picking of lure for certain fish, water temp and learning to fish.		.5		■	■	■
585020	CrossFit Comprised of a group warm-up followed by skill or strength training programmed in advance with total body fitness in mind. Emphasis is on building strength, increasing mobility and flexibility and learning proper safety techniques while working out.		1		■	■	■
585021	Physical Activity Active participation in aerobic, strength training, and flexibility development; various individual and team activities.		1	■	■	■	■
690040	Drivers Education 30 hours of classroom instruction & practical driving experience, local credit only.	Permit required	.5			■	■

Sports							
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 <i>Two semester sport.</i>		1	■	■	■		
999815	Football <i>Fall semester sport; 12th grade.</i>		.5					■
999821	Golf <i>Two semester sport.</i>		1	■	■	■	■	
999822	Softball <i>Two semester sport.</i>		1	■	■	■	■	
999823	Soccer – Boys <i>Two semester sport.</i>		1	■	■	■	■	
999824	Soccer – Girls <i>Two semester sport.</i>		1	■	■	■	■	
999825	Tennis <i>Two semester sport.</i>		1	■	■	■	■	
999816	Track – Boys <i>Spring semester sport.</i>		.5	■	■	■	■	
999817	Track – Girls <i>Spring semester sport.</i>		.5	■	■	■	■	
999826	Volleyball <i>Two semester sport.</i>		1	■	■	■	■	
999827	Wrestling <i>Two semester sport.</i>		1	■	■	■	■	
696005	E-sports <i>Two semester sport in the computer lab; competitive video gaming.</i>		1		■	■	■	

Miscellaneous Offerings




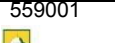
Course Code	Course Description	Pre-R	CR	9	10	11	12
696003	ACT Prep <i>One semester course designed to help students achieve a composite score of at least "19" on the ACT. Focus will be to improve students in weak areas of the test by breaking down the semester into 9 week focus areas.</i>		.5		■	■	■

Virtual Arkansas Elective Courses*

*See Supplemental Catalog. A \$25 Fee Applies to each Virtual Arkansas Course.


Virtual ATU Concurrent Courses



A 3-credit hour college class equals one high school credit.

Course Code	Course Description	Pre-R	CR	9	10	11	12
514002 	Speech/Oral Communication <i>One semester course that covers fundamentals of composition, delivery, and logical reasoning. ACT scores of 19 in Reading and English are required.</i>	Eng. 10 & ACT 19 Read & Eng	1			■	■
549900 	Elementary Spanish 1 <i>One semester course that provides training in the elements of Spanish communication and comprehension within a variety of cultural contexts. ACT scores of 19 in Reading and English are required. Offered Fall Semester ONLY!</i>	ACT 19 Read & Eng	1			■	■
549902 	Elementary Spanish 2 <i>One semester course that provides continued training in basic Spanish communication. ACT scores required. Prerequisite: Elementary Spanish 1 Fall Semester. Offered Spring Semester ONLY!</i>	Elem Span I ACT 19 Read & Eng	1			■	■
559001 	Art Appreciation <i>One semester course designed to provide a background in art and the related processes so that a student may develop powers of observation and thereby respond to a work of art. ACT scores of 19 in Reading and English are required.</i>	ACT 19 Read & Eng	1			■	■

ATU Concurrent Courses







A 3-credit hour college class equals one high school credit.

Course Code	Course Description	Pre-R	CR	9	10	11	12
497100 	Teacher Cadet (Concurrent Credit) <i>This one year course is designed to encourage students who possess a high level of academic achievement and those personality traits found in good teachers to consider teaching as a career. ACT Scores of 19 in Reading and English are required.</i>	ACT 19 Read & English	1			■	■

585900 	Concurrent Physical Education One semester course. ACT Scores of 19 in Reading and English are required.	ACT 19 Read & Eng	1			■	■
580900 	Concurrent Health One semester course. ACT Scores of 19 in Reading and English are required.	ACT 19 Read & Eng	1			■	■

UAFS Concurrent Courses

A 3-credit hour college class equals one high school credit.

Course Code	Course Description	Pre-R	CR	9	10	11	12
590820 	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. Pre- req: 17 ACT in English, Math & Reading. Offered Fall Semester only. THIS COURSE IS A PRE-REQUISITE TO ALL OVER COURSES	ACT 17 in Read, Eng, and Math	.5		■	■	■
590830 	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			■	■	■
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. Pre-req: 17 ACT in English, Math & Reading. Offered Spring semester only. Offered Spring Semester only.	Fund of Elec				■	■
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. Pre-req: ACT of 17 in English, Math & Reading. Offered Fall semester only.	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 & Ind 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				■	■

Western Arkansas Technical Center *See Mrs. Nelson for info and application!**

Earn High School & College Credit at the same time, for no cost!

Course Description

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.