MOUNTAIN HOME HIGH SCHOOL CAREER ACADEMIES

MHHSCA

2020-2021 COURSE DESCRIPTIONS

Mountain Home Public Schools

TABLE OF CONTENTS

COURSE/CREDIT LEGEND

CF - Career Focus	H - Health	PE - Physical Education
E - English	M - Math	S - Science
FA - Fine Art	OC - Oral Communications	SS - Social Studies
	PA - Practical Art	DL-Digital Learning

Last updated: May 8, 2020

CORE REQUIREMENTS

24 Credits and 1.0 GPA

4.0 **credits English (E)**
1 credit each grade 9-12

.5 **credit Oral Communications (OC)**

3.0 **credits Science (SC)**
1 credit Biology; Physical Science, Chemistry, or Physics-at least one credit, and one other ADE approved Science

4.0 **credits Mathematics (MA) One unit must be taken at 11th or 12th grade**
1 credit Algebra I; 1 credit Geometry; Algebra II and one additional math credit
Fourth Math Credit can be any one of the following: Bridge to Algebra II, Modeling in Mathematics, Pre-Calculus

3.0 **credits Social Studies (SS)**
1 credit American History; 1 credit World History; .5 credit of Civics; .5 credit of Economics

.5 **credit Physical Education (PE)**
A PE class or sport must be coached by a certified PE teacher and meet the 18-week requirement
NOTE: BAND DOES NOT COUNT AS A PE CREDIT.

.5 **credit Health (H)**

.5 **credit Fine Arts (FA)**
Must be one of the following: Art, Choir, Band, Art History, or High School Drama or Theatre
NOTE: JUNIOR HIGH DRAMA DOES NOT COUNT AS A FINE ART CREDIT

1.0 **credit Practical Arts (PA)**
Any class taught in Business, Agriculture, Family Consumer Science, Industrial Arts, Career Education, Computer Technology, Medical Professions, Publications, F.I.R.S.T. or E.A.S.T.

6.0 **credits Career Focus electives (CF) NOTE: Drivers Education does not count as a Carrer Focus Credit**

1.0 **Additional credit of Elective**
Elective credits are ANY classes taken in addition to the required courses. It does not matter if those credits are in the elective area or in a core subject area.

---

24 **TOTAL CREDITS TO GRADUATE WITH MHHS SMART CORE DIPLOMA**

NOTE: Beginning with the class of 2018, each high school student shall be required to take at least one digital learning course for credit to graduate. (Act 1280 of 2013)
(Comparable concurrent credit may be substituted where applicable.)

SMART CORE REQUIREMENTS

26 Credits and 2.5 GPA

4.0 **credits English (E)**
1 credit each grade 9-12

.5 **credit Oral Communications (OC)**

3.0 **credits Science (SC)**
1 credit Biology, Physical Science, Chemistry, or Physics- 2

4.0 **credits Mathematics (MA) One unit must be taken at 11th or 12th grade**
1 credit Algebra I; 1 credit Geometry; 1 credit Algebra II and one additional math credit
Fourth Math Credit: Modeling in Mathematics, PreCalculus or Linear Systems

3.0 **credits Social Studies (SS)**
1 credit American History; 1 credit World History; .5 credit of Civics; .5 credit of Economics

.5 **credit Physical Education (PE)**
A PE class or sport must be coached by a certified P.E. teacher and meet the 18-week requirement
NOTE: BAND DOES NOT COUNT AS A PE CREDIT.

.5 **credit Health (H)**

.5 **credit Fine Arts (FA)**
Must be one of the following: Art, Choir, Band, Survey of Fine Arts, Art History, or High School Drama - **NOTE: JUNIOR HIGH DRAMA DOES NOT COUNT AS A FINE ART CREDIT**

1.0 **credit Practical Arts (PA)**
Any class taught in Business, Agriculture, Family Consumer Science, Industrial Arts, Career Education, Computer Technology, Medical Professions, Publications, F.I.R.S.T. or E.A.S.T.

2.0 **credits Foreign Language (FL) -** Both credits must be the same foreign language

6.0 **credits Career Focus electives (CF) Note: Drivers Education does not count as a Career Focus Credit**

1.0 **Additional credit of Elective**
Elective credits are ANY classes taken in addition to the required courses. It does not matter if those credits are in the elective area or in a core subject area.

26 **TOTAL CREDITS TO GRADUATE WITH MHHS SMART CORE DIPLOMA**

NOTE: Beginning with the class of 2018, each high school student shall be required to take at least one digital learning course for credit to graduate. (Act 1280 of 2013)
(Comparable concurrent credit may be substituted where applicable)

HONOR GRADUATE REQUIREMENTS

To be an Honor Graduate at MHHS, you must complete the Smart Core requirements shown above, have a 3.5 total GPA, and take a minimum of 2 Advanced Placement courses.

GRADUATION INFORMATION

College Admission: The smart core courses are recommended for the serious student who plans to register for competitive college. Completion of the smart core courses is not required for general admission to some community colleges, technical schools, or most Arkansas state colleges; however, it may be required for unconditional admission to competitive universities and colleges. Both MHHS diplomas are designed to allow students to attend college. However, if a student plans to compete for seats in a college for which seats are limited, the smart core diploma is highly recommended.

Honor Graduate Requirements: To be an Honor Graduate at Mountain Home High School a student must complete the Smart Core requirements, have a 3.5 total cumulative GPA, and take a minimum of 2 Advanced Placement courses. Honor graduates are designated as follow:

Summa Cum Laude: above 4.0 (7.5 semester GPA)
Magna Cum Laude: 3.75 0 4.0 (7.5 semester GPA)
Cum Laude: 3.5 - 3.74 (7.5 semester GPA)

Advanced Placement: Classes designated Pre-Advanced Placement (Pre-AP) or Advanced Placement (AP) are designed for the academically able student. They are fast-paced, in-depth, challenging courses that require extra work at home and in class. Teacher recommendation and previous classes in the Pre-AP strand are suggested but not mandatory. AP classes carry a 5.0 weight; the Pre-AP classes are on the regular 4.0 system. Parent permission required.

Concurrent Credit: Classes that are designated as concurrent credit classes are done through ASU-MH and will be credited towards the student's high school diploma as well as being placed on an ASU-MH transcript as college hours earned. These courses meet general education requirements and could transfer as academic electives in a four-year degree. The courses that are eligible for concurrent credit are: **Composition I, Composition II, AP Calculus; College Algebra.** In order to receive concurrent credit, these courses MUST qualify under the mandated 51% rule of students in the class taking it for credit. Any student wanting to take a course for concurrent credit through ASU-MH will be required to pay the college tuition to ASU-MH for the course. **Any student who enrolls in the course for concurrent credit and then drops the course from his or her high school schedule must also formally withdrawn from the course through ASU-MH following the course withdrawal procedures.**

Articulated Credit: If you have completed any of the following programs of study with a grade of "C" or better, enroll in ASU-MH within 18 months of graduation, and successfully complete 12 hours at ASU-MH, you may receive credit toward a two-year degree or certificate. These courses are: AG Metals, Banking & Finance Principles and Operations, Computerized Accounting, Digital Communications I & II, Introduction to Hospitality, Human Anatomy & Physiology, Medical Clinical Internship, and Medical Terminology. Information can also be found on ASU-MH's website.

Academy Choices: Students choose their initial academy in the 9th grade through their Keystone class. Each student will select an academy in which he or she will gain career awareness in a way more interesting to the student. A student is required to remain in the academy that he or she has chosen for a period of one school year. Prior to registration each year, there will be an opportunity to make application to change one's academy, if a student finds that a change is needed. Following are the three academy choices:

ACME - Agriculture, Construction, Manufacturing, and Engineering
CAB - Communications, Arts, and Business
HHS - Health and Human Services

Agriculture

May be used as a practical arts credit or as an elective.

All students enrolled in Agriculture are required to have a supervised agricultural experience program.
The supervised agricultural experience program consists of all the practical agriculture activities of educational value conducted by students, outside of class, for which systematic instruction and supervision are provided by their teachers, parents, employers, or others. These activities include:

1. Placement in agriculturally oriented business and jobs
2. Farming programs
3. Plant or animal projects
4. Soil or agriculture mechanics
5. Placement for farm experience

The activity should be closely related to the area of instruction chosen.

Agricultural Business - 491031 - PA, CF
Grade Level: 9, 10, 11, 12— 1 credit - 2 semesters

This course provides students with a basis for making effective decisions, setting goals, assessing and solving problems, evaluating the management of resources, and gaining skills useful in everyday life. FFA and SAEs will be covered as well.

Agricultural Metals - 491380 - PA, CF
Grade Level: 10, 11, 12—1 credit - 2 semesters

This course covers safety, technical information, tool fitting, sheet metal, hot and cold metal work as well as an introduction to oxyacetylene welding and cutting and arc welding. Also covered are fabrication concepts, reading and implementing blueprints as they relate to metal work, CAD, arc welding, gas welding, MIG welding, plasma cutting, CNC plasma and careers related to metal work. Safety practices and performance skills will be emphasized in each area.

Agriculture Mechanics - 491390 - PA, CF
Grade Level: 10, 11, 12— 1 credit - 2 semesters

This course connects scientific principles with mechanical skills. This course will enhance the student's understanding of traditional areas of agriculture mechanics. Agricultural technology including such topics as electricity, internal combustion engines, metal technology, construction, and the development, role and scope of mechanical technology in agriculture will be emphasized.

Survey of Agriculture Systems - 491151 - PA, CF
Grade Level: 9, 10, 11, 12—1 credit - 2 semesters

A **foundation** course for all Agriculture programs of study. Topics covered include general agriculture, FFA, leadership, record keeping, supervised agriculture experiences, animal science, plant science, soil science, and agricultural mechanics.

Agriculture Structural Systems - 491410 - PA, CF
Grade Level: 10, 11, 12 -1 credit - 2 semesters

Students will be introduced to practices used in farm building and construction of facilities for the farm and the technical areas of the agriculture structural industry. Topics will include FFA, SAEs, safety, concrete and masonry structures, basic carpentry, plumbing, electricity, metal fabrication, and painting and finishing.

Animal Science - 491181 - PA, CF, S
Grade Level: 10, 11, 12—1 Credit - 2 semesters

Topics covered include animal biotechnology, animal behavior, classification, consumer concerns, animal welfare, genetics, scientific selection, reproduction, growth and development, nutrition, meat science, and diseases.
This course is a scientific approach to animal science using scientific principles and applied management practices. An emphasis on selection and industry review will be based on scientific data.

Forestry and Wildlife - 491261 - PA, CF
Grade Levels: 10, 11, 12 - 1 Credit - 2 Semesters
Prerequisite: Successful completion of Agricultural Science and Technology/Survey of Agricultural Systems

This course provides an overview of the forest industry and its importance to the economy of the nation. Tree identification, management practices, harvesting and marketing processes, and business applications are major topics. GPS and GIS are included.

Leadership & Communications - 491301 - PA, CF
Grade Level: 9, 10, 11, 12 - 1 credit - 2 semesters
Prerequisite: Successful completion of Agricultural Science and Technology/Survey of Agricultural Systems

Public speaking, parliamentary procedure, organization, delegation, oral communication, conflict resolution, business etiquette, and community service are major topics to assist students in development of their leadership for the future.

Veterinary Science - 491461 **-** PA, CF
Grade Levels: 11, 12 - 1 Credit - 2 Semesters
Prerequisite: Animal Science
This course will provide the student with a sound platform to master the knowledge and skills necessary to become a veterinary assistant. It will also prepare the student to pursue a rewarding career as part of the professional veterinarian team and equip the next generation of veterinarians and veterinarian assistants with the new technological tools that reinforce the industries epectations. The course also provides academic knowlege, higher order reasoning and problem solving skills, work attitudes, general employability skills, technical and occupational skills.

Agronomy - 491500 **-** PA, CF
Grade Level: 10, 11, 12 -½ credit, 1 semester

Agronomy is a branch of agricultural science that deals with the study of crops and the soil in which they grow. Students will explore this branch of science through hands on lab experiences and opportunities related to crops, soil, and livestock

Plant Science - 491170 **-** PA, CF, S
Grade Level: 10, 11, 12 - 1 credit, 2 semesters

The Plant Science course encompasses the study of plant life cycles, classifications, functions, structures, reproduction, media and nutrients, as well as growth and culturral practices through the study of crops, turf grass, trees, shurbs, and or ornamental plants.

Advanced Plant Science - 490800 **-** PA, CF, S
Grade Level: 10, 11, 12 - 1 credit, 2 semesters

This course allows for an in-depth look at the Plant Science Industry while providing hands on laboratories and opportunites to participate in FFA and supervised agricultural experiences. The areas included are nursery management, floriculture, landscaping and fruit and vegetable production

Natural Resources Management - 491310 **-** PA, CF
Grade Level: 10, 11, 12 -- ½ credit, 1 semester

This course covers greenhouse management practices, including structural considerations, plant propagation, pesticed use and product marketing.

Advanced Agri Mechanics - 490810 **-** PA, CF
Grade Level: 10, 11, 12 - 1 credit, 2 semesters

Students will cover agricultural technology terms, careers, systems, features and troubleshooting. They will develop industry partnerships to meet specific needs in agricultural settings with skills including agricultural power systems, small engine technology, agricultural electricity and CNC technology.

Advanced Animal Science - 491010 **-** PA, CF
Grade Level: 10, 11, 12 - 1 credit, 2 semesters

This course allows for an in-depth look at the Animal Science Industry while providing hands on laboratories and opportunities to participate in FFA and Supervised Agricultural Experiences

Agricultural Department Staff
Josh Baker, ACME
Owen Carpenter, ACME
Carson White, ACME

AGRICULTURE COMPLETER CHECKLIST 2019-2020 and Before
(see 2020-2021 and Beyond Programs of Study and Courses on page 22)

Students enrolled in Agriculture classes are required to complete a supervised agricultural experience (SAE) program.

Agricultural Power, Structural, and Technical Systems Program of Study

- ☐ **Survey of Agriculture Systems Technology (REQUIRED)** ..... 1 Credit
- ☐ **Agriculture Mechanics (REQUIRED)**..... 1 Credit
- ☐ Agriculture Elective or Capstone or .....1 Credit

•Agricultural Business (.5)
•Agricultural Electricity (.5)
•Agricultural Metals (1)
•Agricultural Structures (1)
•Animal Science 1 (.5)
•Veterinary Science (.5)
•Agricultural Drafting (.5)
•Agronomy (.5)
•Forestry (.5)
•Leadership & Communication (.5)
•Managing Natural Resources (.5)
•Small Engine Technology (.5)
•Plant Science (.5).....
•CNC (1)
•Animal Science 2 (.5)

Animal Science Program of Study

- ☐ **Survey of Agriculture Systems Technology REQUIRED)** ..... 1 Credit
- ☐ **Animal Science I (REQUIRED)** ..... ½ Credit
- ☐ **Animal Science II (REQUIRED)** ..... ½ Credit
- ☐ Agriculture Elective or Capstone or ..... 1 Credit

•Agricultural Business (.5)
•Agricultural Electricity (.5)
•Agricultural Metals (1)
•Agricultural Structures (1)
•Agricultural Mechanics (1)
•Animal Science 1 (.5)
•Agronomy (.5)
•Forestry (.5)
•Leadership & Communication (.5)
•Small Engine Technology (.5)
•Veterinary Science (.5)
•Plant Science (1)
•Agricultural Drafting (.5)
•CNC (1)

Business and Marketing Technology

These courses may be taken as electives or as practical arts credits. Some may be taken as articulated credit at ASU-MH.

Computerized Accounting I - 492102 - PA, CF, DL
Grade Level: 9, 10, 11, 12—1 credit, 2 semesters
Prerequisite: Computerized Business Applications (offered in 8th grade)

Computerized Accounting I emphasizes basic accounting principles as they relate to both manual and computerized financial systems. Instruction is on an integrated basis, using computers, spreadsheet software, and electronic calculators as the relationships and processes of manual computerized accounting are presented. Entry level skills in the accounting occupations can be attained.

Computerized Accounting II - 492112 - PA, CF, DL
Grade Level: 10, 11, 12— 1 credit, 2 semesters
Prerequisite: Computerized Accounting I

This course is designed to provide students with the knowledge, understanding, and skill necessary for college and career readiness. Departmental and corporate accounting systems are components of the course with emphasis given to computerized software and automated systems.

Principles of Banking - 492090 - PA,CF, DL
Grade Levels: 9, 10, 11, 12 -- 1 credit, 2 semesters
Prerequisite: Computerized Business Applications (offered in 8th grade)

Principles of Banking provides an introduction to banking services and financial institutions. Students will study principles of banking transactions and the services of a

bank. Topics include: soft skills in the workplace, history of banking, Federal Reserve, banking laws, ethics, and banks as business, banking services, bank security, ten-key touch, and banking transactions.

Marketing Business Enterprise 492330 - PA, CF
Grade Level: 10, 11, 12-- 1 credit, 2 semesters

Marketing Business Enterprise is a one-year course designed to offer an overview of the American business system. A study of various forms of ownership, internal organization, management functions, and financing as they relate to business. The course content focuses on the aspects of marketing and managing a small business enterprise; risk management; the use of technology; legal, ethical, and social obligation of businesses; savings and investments; taxes and government.

Medical Office Management - 492690 - PA, CF
Grade Level: 9, 10, 11, 12
Prerequisite: Computerized Business Applications (offered in 8th grade)

This course is designed to teach students concepts and skills that will be applied in the management and administration of a medical office. The course will focus on careers in the medical office environment, office management skills, patient billing and collections, patient client service skills, ethics, medical terminology and health information management.

Hospitality Administration - 492250 - PA, CF
Grade Level: 9, 10, 11, 12— ½ credit, 1 semester
Prerequisite: Survey of Business (offered in 8th grade) or CBA

Hospitality Administration is a one-semester in depth study of the hospitality industry. Students will become familiar with careers in hospitality and the primary segments of the hospitality industry. The importance of personal presentation, communication skills, guest satisfaction, the ability to perform basic business Math, along with basic Marketing concepts will also be covered in this course.

Arkansas Tourism Industry - 492230 - PA, CF
Grade Level: 9**,** 10, 11, 12— ½ credit, 1 semester
Prerequisite: Survey of Business (offered in 8th grade) or CBA

Arkansas Hospitality is a one-semester course designed to familiarize students with Arkansas careers in hospitality and the opportunites available to promote travel and tourism in the state. Emphasis will be on the food industry, transportation industry, lodging industry and touris attractions within the various geographical locations in the state.

Survey of Business- 492120 - PA, CF, DL
Grade Level: 9, 10, 11, 12 -- 1 credit, 2 semesters
Prerequisite: Computerized Business Applications (offered in 8th grade)

This course is designed to introduce students to business and marketing programs of study and related technology to help students succeed in business and marketing careers. Using industry recognized software, students will focus on skills in word processing, spreadsheets, database, presentations, and cloud computing as they relate to business and marketing careers. This course will focus on skills needed to obtain Microsoft Office Specialist (MOS) certifications. The cluster and related programs of study are: Business Management & Administration: Management, Medical Office Administration and Office Management; Finance: Accounting, Banking and Securities, Investments, Risk and Insurance; Hospitality and Tourism: Hospitality and Tourism; Marketing: Marketing and Entrepreneurship; Information Technology: Web Technologies and Social Media and Communications; and Transportation, Distribution and Logistics: Supply Chain and Logistics.

Fundamentals of Audio/Video Tech and Film- 493640 - PA, CF
Grade Level: 9, 10, 11, 12 -- 1 credit, 2 semesters

This course will include a comprehensive introduction to basic film and video production techniques and equipment. Proper procedures are explained for the use of digital and film cameras, filters, lights, microphones, audio equipment, editing systems and other motion picture equipment. Attention is also given to production planning and post-production.

Business and Marketing Technology Staff

Sheri Smith
Brooke Chapman

Business and Marketing Technology
Completer Checklist 2019-20 and Before
(see 2020-2021 and Beyond Programs of Study and Courses on page 22)

Accounting

- ☐ Survey of Business or CBA or equivalent ..... 1 Credit
- ☐ Computer Accounting 1 ..... 1 Credit
- ☐ One Credit Business or Non-Business and Marketing Course .... 1 Credit
  - Computerized Accounting II (1 credit)

Banking

- ☐ Survey of Business or CBA or equivalent ..... 1 Credit
- ☐ Principles of Banking ..... 1 Credit
- ☐ One Credit Business or Non-Business and Marketing Course .... 1 Credit
  - Computerized Accounting I (1 credit)
  - Financial Literacy (½ credit)
  - Social Media and Communications (1 credit)

Marketing

- ☐ Survey of Business or CBA or equivalent ..... 1 Credit
- ☐ Marketing ..... 1 Credit
- ☐ One Credit Business or Non-Business and Marketing Course .... 1 Credit
  - Computerized Accounting I (1 credit)
  - Financial Literacy (½ credit)
  - Sports and Entertainment Marketing (½ credit)

Medical Office Management

- ☐ Survey of Business or CBA or equivalent ..... 1 Credit
- ☐ Medical Office Management ..... 1 Credit
- ☐ One Credit Business or Non-Business and Marketing Course .... 1 Credit
  - Computerized Accounting I (1 credit)
  - Financial Literacy (½ credit)
  - Sports and Entertainment Marketing (½ credit)

The 2019-2020 and before Business and Marketing Technology Completer Checklist is only used for those students that started the pathway before the 2020-2021 school year.

Career Guidance, Exploration, & Preparation

Senior Work Study Program - 49386W - PA
Grade Level: 12th only - 1/2 credit per semester
Prerequisite: Counselor Approval

The Work Study Program provides students an opportunity to meet their academic requirements for graduation while gaining valuable work experience. Students participating in this program will attend their academic classes daily and be granted a late arrival/early dismissal to participate in employment during school hours. Students must be on track to graduate and must work a minimum of 15 hours per week to qualify for this program. Students must provide their own transportation.

Capstone - 493880 - PA, CF
Grade Level: 12 only - 1/2 credit - 1 semester

Significant time is dedicated to using technology in researching all aspects of colleges and or trade schools; including cost, careers, and student life-skills. This class is designed to help students with "life after high school." Students will be exploring and developing post-secondary planning:
What career am I going to pursue?
Where will I receive my training for this carerr?
How Will I pay for this training? Financial Planning FAFSA Information
Scholarship-Students will collect letters of recommenda tion, write essays, and gather needed documents to apply for scholarships.
Soft Skills-Resume writing, job interviewing skills. How to dress for interviews.
Life Skills-How to change a tire, manage a check book, income tax returns, and the proper way to communicate with your professors.

Senior Internships - 493860 - CF
Grade Level: 12 — 1 semester, ½ credit

The internship program provides students the opportunity to intern with a local business partner for the semester where they will gain valuable real world experience. Students must apply to be part of the internship program. To be considered for an internship position a student must have demonstrated interst in the internship area through coursework and extracurricular activities. Students must be on track to graduate, be recommended by two faculty members, and must have a minimum 2.0 GPA. To qualify for a senior internship students must not have any discipline or attendance issues. Students must provide their own transportation.

EAST Initiative I - 560010 - PA, CF
Grade Level: 8, 9, 10, 11, 12 - 1 credit - 2 semesters

EAST® (Education Accelerated by Service and Technology) is an educational model focusing on student-driven service projects accomplished by using teamwork and cutting-edge technology. EAST classrooms are equipped with state-of-the-art workstations, servers, software and accessories, including GPS/GIS mapping tools, architectural and CAD design software, 3D animation suites, virtual reality development and more. Students identify problems in their local communities and then use these tools to develop solutions, collaborating with civic and other groups in the process. VISUAL: students working in groups.

EAST Initiative II - 560020 - PA, CF, DL
Grade Level: 9, 10, 11, 12 - 1 credit - 2 semesters
Prerequisite: Successful completion of EAST I and recommended by facilitator.

EAST II students will be in classes of EAST I, III and IV students. These students will focus on larger community projects.

EAST Initiative III - 560030 - PA, CF, DL
Grade Level: 10, 11, 12 - 1 credit - 2 semesters
Prerequisite: Successful completion of EAST I and II and recommended by facilitator.

EAST III students will be in classes of EAST I, II and IV students. These students will focus on larger community projects.

EAST Initiative IV - 560040 - PA, CF, DL
Grade Level: 11,12 - 1 credit - 2 semesters
Prerequisite: Successful completion of EAST I, II and III and recommended by facilitator.

EAST IV students will be in classes of EAST I, II and III students. These students will focus on larger community projects.

EAST Initiative V - 560050 - PA, CF, DL
Grade Level: 11,12 - 1 credit - 2 semesters
Prerequisite: Successful completion of EAST I, II, III and IV. Recommended by facilitator.

EAST IV students will be in classes of EAST I, II and III students. These students will focus on larger community projects.

Service Learning - 496010 - CF
Grade Level: 12th only - 1/2 credit per semester
Prerequisite: Instructor Approval

Service learning is designed for students who want to earn volunteer and or community service hours during the school day. Students can volunteer at different local businesses and can accumulate these service hours throughout the semester. Students are exchanging credit on their transcript for the volunteer hours. These volunteer hours can then be used for scholarship applications. If a student does not want the volunteer hours, then they may take the course for credit on their transcript. These volunteer hours may not be counted for other service organizations at MHHS such as NHS. Students must provide their own transportation

Apprenticeship - 49386A - CF
Grade Level: 12th only - 1/2 credit per semester
Prerequisite: Instructor Approval

Apprenticeships are designed for students who want to directly enter the workforce after graduation. These are partnerships with local businesses who will provide our students with hands-on training at the work site while getting paid. The goal of the apprenticeship program is for those students to be hired as full-time employees with that business partner after graduation. Students must provide their own transportation.

Career Connections Department Staff

Cathy Beckham, ACME
Shelby Anderson, CAB
Dani Pugsley, ACME

EAST CONCENTRATION CHECKLIST 2019-2020 and Before
(see 2020-2021 and Beyond Programs of Study and Courses on page 22)

EAST Program of Study (Students must complete 4 of the following 6 options)

- ☐ EAST .....(1 Credit)
- ☐ EAST II .....(1 Credit)
- ☐ EAST III .....(1 Credit)
- ☐ EAST IV .....(1 Credit)
- ☐ EAST IV .....(1 Credit)
- ☐ Service Learning .....(1 Credit)

ASUMH Career and Technical Programs

ASUMH's Technical Center, located at 4034 Highway 62 West (two miles west of the main campus), also serves as a secondary center for area high school students. The Technical Center opened for the fall semester in 2014 and is an approved site by the Arkansas Department of Career Education to provide training for area high school juniors* and seniors with the opportunity to earn college credit while still in high school.

PROGRAMS AVAILABLE TO HIGH SCHOOL STUDENTS THROUGH ASUMH'S SECONDARY CENTER INCLUDE

- Automotive Systems Repair
- Heating, Ventilation and Air Conditioning (HVAC)
- Mechatronics
- Welding

**MHHSCA juniors will be required to use school provided transportation to and from the Technical Center.

AUTOMOTIVE SYSTEMS REPAIR

1013 Introduction to Automotive Technology PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Introduces the automobile from a technical perspective. Subjects covered include automotive technical career exploration, minor maintenance and safety inspection, and an introduction to technical systems. Also includes automotive history and current environmental issues associated with the automobile. Presents both theory and practice using handheld and stationary equipment in most topics. Safety incorporating OSHA standards is emphasized.

1024 Brakes and Braking Systems - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Introduces the fundamentals of basic brakes and braking systems, including hydraulic theory. Includes various disc, drum and parking brake systems. Mechanical, hydraulic, and anti-lock systems are included. Safety incorporating OSHA standards is emphasized.

1034 Suspension and Steering Systems - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Introduces the fundamentals of suspension and steering systems. Includes wheels, tires, hubs, bearings, seals, springs, front and rear alignment, and various manual and power steering systems. Includes both theory and practice in most topics. Safety incorporating OSHA standards is emphasized.

1104 Engine Performance I - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Studies fuel systems, electronic engine/emission controls, proper engine performance, tune-up and automotive safety devices. Diagnostics will be extensively covered. Knowledge needed to perform repair work in general engine diagnosis, computerized engine control diagnosis and repair, ignition and repair, and engine related service will be introduced.

1304 Electrical Systems I - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Introduces the fundamentals of electricity, including electrical circuits, Ohm's Law, wiring diagrams, and common electrical symbols. Familiarization with test equipment as well as diagnosis and troubleshooting are emphasized. Safety incorporating OSHA standards is emphasized. Systems include starting, charging, microprocessor, power distribution, sensors, and actuators.

1404 Automotive HVAC Grade Level: - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Introduces the theory and practice of modern vehicle heating and air-conditioning systems, including the theory of refrigeration. Various components including compressors, lines, expansion valves, condensers, evaporators, blower motors, and distribution systems are covered. Student will practice the operation, diagnosis and repair aspects of modern air-conditioning systems. Includes both theory and practice using handheld and stationary equipment in

most topics. Safety incorporating OSHA standards is emphasized.

2104 Engine Performance II - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Studies fuel systems, electronic engine/emission controls, proper engine performance, tune-up, and automotive safety device. Diagnostics are extensively covered. Skills needed to perform repair work in general engine diagnosis, computerized engine control diagnosis and repair, ignition systems diagnosis and repair, air/fuel and exhaust system diagnosis and repair, emission control system diagnosis and repair, and engine related service will be covered.

2304 Electrical Systems II Application - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Presents the fundamentals of the automotive wet cell battery, its construction, ratings, charging, testing, maintenance and safety will be covered in this course. Introduces the construction and operation of the various components of the starting system, including the starter motor, starter drives, solenoids and relays. Component testing, diagnosing and overhaul will also be covered. Presents the construction, operation and testing of the charging systems and its components and regulators. Major components of the vehicle's lighting systems, the different forms of driver warning devices, electronic instrumentation and the fundamentals of the ignition system will be taught. Testing and troubleshooting these systems will be practiced.

HEATING, VENTILATION, AIR CONDITIONING

1014 Principles of Air Conditioning and Refrigeration - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Introduces the student to the whole process of air conditioning and refrigeration. Presents the concepts behind diagnosing problems and troubleshooting. Safety, proper specialty tool usage and EPA Section 608 licensing requirements will be covered. The process of identifying tubing and pipe using a practical approach is presented. Introduces sizing and fitting tubing and pipe to different configurations using mechanical fittings.

1024 Principles of Heating - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Develops a basic understanding of residential and commercial heating and cooling systems. Operation, maintenance and installation of gas, electric, oil and heat pump systems will be covered. The Psychometric Chart will be introduced.

1104 Introduction to Air Distribution Systems - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Provides the student with the basic knowledge and skill to determine air flow requirements. Students will become familiar with air flow measurement tools and ductwork sizing to match system needs. Indoor air quality requirements and air balancing will be covered.

1204 Residential HVAC - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Teaches the student to understand the mechanics of a residential air conditioner. Teaches how to service and repair air conditioner or heat pump, as well as the technician's role in maintaining HVAC systems. EPA Section 608 licensing will be covered in-depth and students given the opportunity to take the test. Introduces sizing and fitting tubing and pipe to different configurations.

MECHATRONICS

1504 DC Electronics - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Introduces fundamental electrical quantities and the relationships among voltage, current, resistance, and power. Topics include standard, scientific, and engineering notations, resistive circuitry, electrical laws, and theorems. Examines application, the proper use of circuit troubleshooting techniques using analog voltohm milliammeter (VOM) and digital multimeter (DMM). A grade of "C" or better is required before a student may advance to TECH 1514 AC Electronics. Pre-or co-requisite: MATH 1113 or higher level math course or consent of instructor.

1514 AC Electronics - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Introduces the essential concepts of, and computations related to, alternating current electronics. Emphasis placed on AC circuits and theorems, reactive components, phase-shifting, electronic filtering, and the power triangle. Proper operation of the signal generator, dual-trace oscilloscope, and capacitance and inductance meter. Prerequisite: TECH 1504 DC Electronics.

2314 Programmable Logic Controllers - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Introduces the programmable logic controller (PLC) and associated applications. Includes numbering systems, basic gate logic, ladder relay logic diagrams, input/output modules, field devices, image tables, PLC programming and troubleshooting. Prerequisite: TECH 1514 or instructor consent.

2424 Hydraulic and Pneumatic Systems - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Introduces basic hydraulics and pneumatics from the practical side with minimum emphasis on theory and mathematics. Provides the students with a working understanding of the interaction of components in a basic hydraulic and pneumatic circuit. Covers the principles underlying hydraulics and pneumatics and describes in detail cylinders, tubing, and directional pressure, and flow of control valves.

2014 Digital Electronics - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Covers basic and combinational gate logiccircuitry. Topics include binary, octal, hexadecimal numbering systems and a number of coding systems (BCD, Gray, ASCII). Basic TTL gate circuitry, Truth tables, Boolean algerbra, and DeMorgan's theorem will be studied. Application of troubleshooting techniques teaches proper use of the logic probe and logic pulser. Prerequisite: TECH 1514.

2154 Industrial Mechanical Systems - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Covers the role of mechanical components in complex mechatronic systems, the flow of energy in a mechatronic system, calculation of force, accelerations, speed, torque, and basic maintenance and systems-level troubleshooting. Gears, gear drives, chain and sprocket systems, power transmission, pulley drives, synchronous drives, lubrication requirements of mechanical components, and analyzing technical data sheets are also included. Mechanical shafts, couplings and bearings, preventative and predictive maintenance of shafts, couplings, bushings, seals and bearings, and alignment will be covered. Also included are clutches, brakes, linear motion technology, flexible elements and troubleshooting the mechanical components in a complete mechatronic system. Prerequisite: MATH 1113

WELDING

1024 Shielded Metal Arc Welding (SMAW/Stick) - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Prerequisite: Starting with the class of 2019, MHHS Agriculture Metals
Teaches the basic knowledge required to operate shielded metal arc welding equipment, function safely in the welding shop and develop basic welding techniques. Requires students study welding nomenclature, design of welding joints, electrode classification and practice fillet welds in the flat and horizontal position. . A grade of "C" or better is required before a student may advance to WELD 1134.

1104 Advanced Shielded Metal Arc Welding - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Builds on knowledge and skills gained in WELD 1134 Intermediate Shielded Metal Arc Welding. Provides students with the opportunity to learn and practice root beads, hot pass and cap in the vertical up position using 6010 and 7018 rods. Provides students will have the opportunity to test for AWS D1.1 Welding Certification (extra fee required). Prerequisites: WELD 1134 Intermediate Shielded Metal Arc Welding or consent of instructor.

1134 Intermediate Shielded Metal Arc Welding- PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Builds on basic knowledge and skills gained in WELD 1024 Shielded Metal Arc Welding. Provides opportunity for students to gain proficiency by welding in the overhead and vertical up welding positions. A grade of "C" or better is required before a student may advance to WELD 1104

Advanced Shielded Metal Arc Welding. Prerequisites: WELD 1024 Shielded Metal Arc Welding or consent of instructor.

1204 Gas Metal Arc Welding - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Teaches the basic knowledge and skills required to operate Gas Metal Arc Welding (MIG) equipment, function safely in the welding shop and develop basic MIG welding skills. Provides opportunity for students to study welding nomenclature, design of welding joints and practice fillet welds in the flat and horizontal position. A grade of "C" or better is required before a student may advance to WELD 1234 Intermediate Gas Metal Arc Welding.

1234 Intermediate Gas Metal Arc Welding - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Builds on basic knowledge and skills gained in WELD 1204 Gas Metal Arc Welding. Provides students with the opportunity to gain proficiency by welding in the overhead and vertical welding positions. A grade of "C" or better is required before a student may advance to WELD 1304 Advanced Gas Metal Arc Welding. Prerequisites: WELD 1204 consent of instructor.

1304 Advanced Gas Metal Arc Welding - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Builds on knowledge and skills gained in WELD 1234 Intermediate Gas Metal Arc Welding. Provides students with the opportunity to learn and practice horizontal welds with dragging technique, vertical up beads, and vertical up with root, fill and cap. Provides students with the opportunity to test for AWS MIG Welding Certification (extra fee required). Prerequisites: WELD 1234 Intermediate Gas Metal Arc Welding or consent of instructor.

1404 Gas Tungsten Welding (GTAW/TIG) - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Teaches the basic knowledge and skills required to operate Gas Tungsten Arc Welding (TIG) equipment, function safely in the welding shop and develop basic TIG welding techniques. Students study welding nomenclature, design of welding joints and practice welding beads in the flat, horizontal, vertical up, and overhead positions. A grade of "C" or better is required before a student may advance to WELD 1434 Intermediate Gas Tungsten Arc Welding.

1434 Intermediate Gas Tungsten Arc Welding - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Builds on basic knowledge and skills gained in WELD 1404 Gas Tungsten Arc Welding. Students have the opportunity to gain proficiency by learning and practicing root beads, root beads with hot pass and fill and cap on mild steel. A grade of "C" or better is required before a student may advance to WELD 1504 Advanced Gas Tungsten Welding. Prerequisite: WELD 1404 Gas Tungsten Welding or consent of instructor.

1504 Advanced Gas Tungsten Welding - PA, CF
Grade Level: 11,12 - 1 Semester, 1 Credit

Builds on knowledge and skills gained in WELD 1434 (Intermediate Gas Tungsten Arc Welding). Students have the opportunity to learn and practice high frequency TIG welding techniques on aluminum and stainless steel and will practice root beads with stainless steel rods. Students will have the opportunity to test for AWS 17.1 Fusion Welding for Aerospace (extra fee required). Prerequisite: WELD 1434 Intermediate Gas Tungsten Welding or consent of instructor.

Nursing Assistant - PA, CF
Grade Level: 12 -1 Semester, 1 Credit
Prerequisite: Medical Procedures

Enrolling in a 7 credit hour CNA course is a rewarding way to start a career in the medical field. Provides instruction with an emphasis on technical skills, professional relationships, and workplace ethics. Graduates of the program are eligible to complete the Arkansas skills test to become a Certified Nursing Assistant (CNA). Graduates of the program are prepared to work in long-term care, acute care, and home-health care settings.

Emergency Medical Responder - PA, CF
Grade Level: 12 - 1 Semester, 1 Credit

The Emergency Medical Responder course is an entry-level emergency medical provider course that will prepare individuals for employment or a volunteer position in a variety of pre-hospital, industrial and first responder settings. The course consists of introductory material into the EMS system and components relating to medical practice in the prehospital field. The EMR course prepares individuals with the knowledge and skills necessary to provide immediate lifesaving interventions while awaiting additional EMS resources to arrive. EMRs also provide assistance to higher-level personnel at the scene of emergencies and during transport.

CRIMINAL JUSTICE

CRJ 1003 Fundamentals of Criminal Justice - 590730
-CF, PA
Grade Level: 11, 12 - 1 Semester, 1 Credit

Fundamentals of Criminal Justice introduces students to the criminal justice system by describing the various agencies of the American criminal justice system and the procedures used to identify and treat criminal offenders. Explores and analyzes the critical issues in criminal justice and their impact on the justice system by focusing on critical policies and issues.

***CRJ 1223 Police Organization and Administration - 590740* - CF, PA**
Grade Level: 11, 12 - 1 Semester, 1 Credit

Introduces students to the various components of police organization and administration. Examines multiple organization strategies used in policing and organization structures. Topics include historical perspectives, police roles, police management, planning, performance measurement, and general organization principles and doctrines as applied to all aspects of police functions and managements.

CRJ 2033 Juvenile Delinquency - CF, PA
Grade Level: 11, 12 - 1 Semester, 1 Credit

Introduces students to the various components of the American juvenile justice system. Featured topics include historical perspectives, causation, environmental influences, juvenile justice processes, definition and extent of delinquency, and prevention treatment methodologies.

CRJ 2233 Criminal Law I - CF, PA
Grade Level: 11, 12 - 1 Semester, 1 Credit

Provides students with an introductory survey of criminal law relevant to a wide variety of occupations within the various areas of criminal justice. The course would incorporate the basic concepts and doctrines of criminal law in the United States: culpability, causation, homicide, justification and excuse, constitutional limitations on criminal law, attempt, complicity, and conspiracy.

Computer Engineering

CS Network/Hardware I- 465110 - PA, CF
Grade Level: 9, 10, 11, 12 - ½credit - 1 semester

This course includes the skills required for building, troubleshooting, repairing and maintaining compputers. It includes objectives in the following domains: Sagety, Careers, Identifying hardware (Motherboards, Processors, Memory) Diagnostic and Troubleshooting techniques. Students will use online virtual labs to build and troubleshoot computers.

CS Network/Hardware II- 465120 - PA, CF
Grade Level: 9, 10, 11, 12 - ½credit, 1 semester
Prerequisite: Comp Sc: Network/Hardware I

Students will stay up to date with the new technology and innovations. They will identify unique computer components and determine criteria for their use. Discuss the basic concepts and procedures for creating, viewing and managing files, directories, and disks. Students will be able to perform system upgrades to various types of hardware and Operating Systems. They will understand the basic networking concepts. Students will use online virtual labs and hands on labs to build and trouble shoot computers.

CS Network/Hardware III - 465130 - PA, CF
Grade Level: 9, 10, 11, 12 - ½ credit, 1 semester
Prerequisite: Comp Sc: Network/Hardware II

This course builds on the course work from Computer Science IA and IB and includes the skills required for building, troubleshooting, repairing and maintaining computers. It helps prepare students for the Comp TIA IT Fundamentals certification. Students may also earn CompTIA's A+ certification after completing Comp Sc: Network/Hardware IIB and additional training. Student will use online virtual labs to build and trouble shoot computers.

CS Network/Hardware IV - 465140 **- PA, CF**
Grade Level: 10, 11, 12 - ½ credit - 1 semester
Prerequisite: Comp Sc: Network/Hardware III

This course builds on the lessons learned from Comp Sc/ IIA. It includes objectives in the following domains: a) Operating systems, b) security, c) Troubleshooting and preventive maintenance ad d) Green IT. Students will stay up to date with new technology and innovations. This course helps prepare students for the CompTia IT A+ certification. Students will use online virtual labs to build and troubleshoot computers. Hands on labs will also be utilized to bring real world experience and relevance to the course material.

Advanced Networking - 465150 **-** PA, CF
Grade Level: 11, 12 - 1 credit - 2 semesters
Prerequisite: Comp Science: Network/Hardware I, II, III, IIB with a C or more in these courses and a 2.5 GPA

This course design is intended to enhance student's professional problem solving strategies and skills needed by the current technology minded work force along with desired computer support skills. Students will design, repair or engineer innovative hardware and software systems to meet customer needs. A majority of the course will focus on the ins and outs of computer networks and securing said networks. In today's world, being able to design a network based on a customer's needs is a high demand skill. Even more important than the network itself, is the ability to secure the access and data of that network. These skills will be explored along with the ever changing technology landscape during this course.

Computer Science

Computer Science Programming Coding Emphasis Level 1- 465010 - PA, CF, DL
Grade Level: 9, 10, 11, 12 - ½ credit - 1 semester
Prerequisite: Algebra 1 or concurrently

This course is designed to provide foundational understandings of concepts in computer science that are necessary for students to function in an ever-changing technological world. In this course, students will explore, apply, and move toward mastery in skills and concepts related to Computational Thinking and Problem Solving, Data and Information; Algorithms and Programs; Computers and Communications; and Community, Global and Ethical Impacts. Completion of levels 1 and 2 may substitute for the 4th math credit or 3rd science credit.

Computer Science Programming Coding Emphasis Level 2 - 465020 - PA, CF, DL
Grade Level: 9, 10, 11, 12 - ½ credit - 1 semester
Prerequisite: Computer Science Level I

This class is a continuation of Computer Science Level 1 (Programming/ Coding Emphasis).
This course is designed to provide foundational understandings of concepts in computer science that are necessary for students to function in an ever-changing technological world. In this course, students will explore, apply, and move toward mastery in skills and concepts related to Computational Thinking and Problem Solving; Data and Information; Algorithms and Programs; Computers and Communications; and Community, Global, and Ethical Impacts. Completion of levels 1 and 2 may substitute for the 4th math credit or 3rd science credit. Students must have taken Algebra I or be taking it concurrently to take this class. Students must have completed a computer science level 1 course prior to taking level 2.

Computer Science Programming Coding Emphasis Level 3- 465030 - PA, CF, DL
Grade Level: 9, 10, 11, 12 - ½ credit - 1 semester
Prerequisite: Computer Science Level I and 2

This class is a continuation of Computer Science Level 2 (Programming/ Coding Emphasis), in computer science that are necessary for students to function in an ever-changing technological world. In this course, students will explore, apply, and move toward mastery in skills and concepts related to Computational Thinking and Problem Solving; Data and Information; Algorithms and Programs; Computers and Communications; and Community, Global, and Ethical Impacts. Completion of both levels may substitute for the 4th math credit or 3rd science credit. Students must have completed Algebra I prior to taking this class. Students must have completed computer science courses levels 1 and 2 prior to taking this course.

Computer Science Programming Coding Emphasis Level 4- 465040 - PA, CF, DL
Grade Level: 9, 10, 11, 12 - ½ credit - 1 semester
Prerequisite: Computer Science Level 3

This class is a continuation of Computer Science Level 4 (Programming/ Coding Emphasis), expanding into a more sophisticated understanding of programming topics. This course is designed to provide foundational understandings of concepts in computer science that are necessary for students to function in an ever-changing technological world. In this course, students will explore, apply, and move toward mastery in skills and concepts related to Computational Thinking and Problem Solving; Data and Information; Algorithms and Programs; Computers and Communications; and Community, Global, and Ethical Impacts. Students will learn more sophisticated coding skills and work towards designing complete and functional mobile phone apps. Completion of both levels may substitute for the 4th math credit or 3rd science credit. Students must have completed Algebra I prior to taking this class. Students must have completed a computer science level 3 course prior to taking this class.

Computer Science Advanded Programming 1 Coding Emphasis Level 5 - 465050 - PA, CF, DL
Grade Level: 11, 12 - ½ credit - 1 semester
Prerequisite: Computer Science Level 4

This class is a continuation of Computer Science Level 4 (Programming/Coding Emphasis), expanding into a more sophisticated understanding of programming topices. This course is designed to provide foundational understandings of concepts in computer science that are necessary for students to function in an ever changing technological world. In this course students will explore, apply and move toward mastery iin skills and concepts related to Computational Thinking and Problem Solving; Data and Information; Algorithms and Programs; Computers and Communications; and Community, Global and Ethical Impacts. Students will learn more sophisticated coding skills and work towards designing complete and functional mobile phone apps. Students will begin to explore networking and cybersecurity. Students will also learn how to work as a professional team within other Computer Science disciplines. Completion of both levels may substitute for the 4th math credit or 3rd science credit. Students must have completed Algebra I prior to taking this class. Students must have completed a computer science level 4 class prior to taking this class.

Computer Science Advanded Programming 2 Coding Emphasis Level 6 - 465060 - PA, CF, DL
Grade Level: 11, 12 - ½ credit - 1 semester
Prerequisite: Computer Science Level 5

This class is a continuation of Computer Science Level 5 (Programming/ Coding Emphasis), expanding into a more sophisticated understanding of programming topics. This course is designed to provide foundational understandings of concepts in computer science that are necessary for students to function in an ever changing technological world. In this course, students will explore, apply, and move toward mastery in skills and concepts related to Computational Thinking and Problem Solving; Data and Information; Algorithms and Programs; Computers and Communications; and Community, Global, and Ethical Impacts. Students will learn more sophisticated coding skills and work towards designing complete and functional mobile phone apps. Students will continue to explore networking and cybersecurity. Students will also learn how to work as a professional team within other Computer Science disciplines. Students will work as a team to solve real world problems that are relevant to local projects. Completion of both levels may substitute for the 4th math credit or 3rd science credit. Students must have completed Algebra I prior to taking this class. Students must have completed a computer science level 5 course prior to taking this class.

Computer Department Staff

Bradford Young, ACME
Ronald Bergenstock,

2020-2021 Agriculture Science and Technology Program of Study Areas

Program of Study: Agricultural Power, Structural & Technical Systems
Cluster: Agriculture, Food, and Natural Resources
Pathway: Agricultural Power, Structural & Technical Systems

Course Code	Course Name	Level/Sequence	Grade Level	Credit (.5 or 1)
491150	**Survey of Ag Systems**	1	9-12	1
491390	**Agricultural Mechanics**	2	10-12	1
Plus one full credit from the list below				
490810	**Advanced Agricultural Mechanics**	3	11-12	1
491380	**Agricutural Metals**	3	11-12	1

Program of Study: Animal Systems
Cluster: Agriculture, Food, and Natural Resources
Pathway: Animal Systems

Course Code	Course Name	Level/Sequence	Grade Level	Credit (.5 or 1)
491150	**Survey of Ag Systems**	1	9-12	1
491180	**Animal Systems**	2	10-12	1
Plus one full credit from the list below				
491010	**Advanced Animal Science**	3	10-12	1
491460	**Veterinary Science**	3	11-12	1

Program of Study: Plant Systems
Cluster: Agriculture, Food, and Natural Resources
Pathway: Plant Systems

Course Code	Course Name	Level/Sequence	Grade Level	Credit (.5 or 1)
491150	**Survey of Ag Systems**	1	9-12	1
491340	**Plant Science**	2	10-12	1
Plus one full credit from the list below				
491270	**Greenhouse Management**	3	11-12	1
490800	**Advanced Plant Science**	3	11-12	1

2020-2021 Business & Marketing Technology Program of Study Areas

Program of Study: Accounting
Cluster: Finance
Pathway: Accounting

Course Code	Course Name	Level/Sequence	Grade Level	Credit (.5 or 1)
492120	**Survey of Business**	1	9-12	1
492100	**Accounting I**	2	9-12	1
492110	**Accounting II**	3	10-12	1

Program of Study: Banking Services
Cluster: Finance
Pathway: Banking

Course Code	Course Name	Level/Sequence	Grade Level	Credit (.5 or 1)
492120	**Survey of Business**	1	9-12	1
492090	**Principles of Banking**	2	9-12	1
492100	**Accounting I**	3	9-12	1

Program of Study: Medical Office Administration
Cluster: Business Management and Administration
Pathway: Administrative Support

Course Code	Course Name	Level/Sequence	Grade Level	Credit (.5 or 1)
492120	**Survey of Business**	1	9-12	1
492690	**Medical Office Management**	2	9-12	1
492100	**Accounting I**	3	9-12	1

Program of Study: Marketing Business Enterprise
Cluster: Marketing
Pathway: Marketing Management

Course Code	Course Name	Level/Sequence	Grade Level	Credit (.5 or 1)
492120	**Survey of Business**	1	9-12	1
TBA	**Marketing Business Enterprise**	2	10-12	1
TBA	**TBA**	3	TBA	1

2020-2021 Family and Consumer Sciences Program of Study Areas

Program of Study: Human & Social Services
Cluster: Human Services
Pathway: Family and Community Services

Course Code	Course Name	Level/Sequence	Grade Level	Credit (.5 or 1)
493080	**Family & Consumer Sciences**	1	9-12	1
493020	**Life Span Development** (formerly Child Development and Parenting)	2	9-12	1
493010	**Advanced Child Care Guidance, Management, and Services** (formerly Child Care Guidance, Mgmt. & Services)	3	10-12	1

Program of Study: Education & Training
Cluster: Education & Training
Pathway: Teaching and Training

Course Code	Course Name	Level/Sequence	Grade Level	Credit (.5 or 1)
493020	**Life Span Development** (formerly Child Development and Parenting)	1	9-12	1
493240	**Foundations of Teaching** (formerly Orientation to Teaching I)	2	10-12	1
493290	**Methods of Teacher Instruction** (formerly Orientation to Teaching II)	3	11-12	1

Program of Study: Culinary Arts and Food Production, Management, and Services
Cluster: Hospitality and Tourism
Pathway: Restaurant and Food and Beverage Services

Course Code	Course Name	Level/Sequence	Grade Level	Credit (.5 or 1)
493110	**Food Safety and Nutrition**	1	9-12	1
493120	**Food Production, Managment, and Services**	2	10-12	1
492250 and 492230	**Hospitality Administration** and AR Hospitality & Tourism	3	9-12	.5 .5
Program of Study	**Level 1**	**Level 2**	**Level 3**	
Nutrition Science and Dietetiucs	Family and Consumer Sciences 493080	Food Safety and Nutrition 493110	Life and Fitness Nutrition 493299 or Advanced Nutrition & Dietetics 493340 or Chemistry of Foods 493340 or Youth Apprenticeship 490290	
Certifications:	CPR/First Aid Broad Field Family and Consumer Sciences Pre-PAC AAFCS	ServSafe Food Handler	Nutrition, Food, and Wellness Pre-Pac AFFCS ICEV AMSA Employment Professionals Career Auburn Dietician Manager Certification	

2020-2021 STEM
Program of Study Areas

Program of Study:	Computer Science: Programming
Cluster:	Information Technology
Pathway:	Programming and Software Development

Course Code	Course Name	Level/Sequence	Grade Level	Credit (.5 or 1)
465010 and 465020	CS Programming/Coding Emphasis 1 and CS Programming/Coding Emphasis 2	1	9-12	.5 .5
465030 and 465404	CS Programming/Coding Emphasis 3 and CS Programming/Coding Emphasis 4	2	9-12	.5 .5
465050 and 465060	Advanced Programming 1 and Advanced Programming 2	3	9-12	.5 .5

Program of Study:	Computer Science: Network & Hardware
Cluster:	Information Technology
Pathway:	Programming and Software Development

Course Code	Course Name	Level/Sequence	Grade Level	Credit (.5 or 1)
465110 and 465120	CS with Network/Hardware Emphasis 1 and CS with Network/Hardware Emphasis 2	1	9-12	.5 .5
465130 and 465140	CS with Network/Hardware Emphasis 3 and CS with Network/Hardware Emphasis 4	2	9-12	.5 .5
465150 and 465160	Advanced Networking 1 and Advanced Networking 2	3	9-12	.5 .5

2020-2021 Trade and Industry Program of Study Areas

Program of Study: Navy JROTC
Cluster: Government & Public Administration
Pathway: National Security

Course Code	Course Name	Level/Sequence	Grade Level	Credit (.5 or 1)
495850	**Navy JROTC I**	1	9-12	1
495860	**Navy JROTC II**	2	10-12	1
Plus one full credit from the list below				
495870	**Navy JROTC III**	3	10-12	1
495910	**Navy JROTC IV**	3	10-12	1
480950	**JROTC Health**	3	10-12	0.5
485950	**JROTC Physical Education**	3	10-12	0.5

Program of Study: Medical Professions
Cluster: Health Science
Pathway: Theraputic Services

Course Code	Course Name	Level/Sequence	Grade Level	Credit (.5 or 1)
495350	**Foundations of Health Care**	1	9-12	1
424030	**Anatomy / Physiology**	2	9-12	1
Plus one full credit from the list below				
495370	**Abnormal Psychology**	3	9-12	0.5
490510	**Medical Lab**	3	9-12	0.5
495360	**Medical Terminology**	3	9-12	0.5
495390	**Medical Procedures**	3	9-12	0.5
495380	**Intro. to Medical Professions**	3	9-12	0.5
490030	**Certified Nursing Assistant**	3	11-12	0.5

Program of Study: Sports Medicine
Cluster: Health Science
Pathway: Theraputic Services

Course Code	Course Name	Level/Sequence	Grade Level	Credit (.5 or 1)
494050	**Foundations of Sports Medicine**	1	9-12	1
424030	**Anatomy / Physiology**	2	9-12	1
Plus one full credit from the list below				
495380	**Intro. to Medical Professions**	3	9-12	0.5
495360	**Medical Terminology**	3	9-12	0.5

Engineering

Credits used as a practical arts credit or as elective credit.

Engineering I 493960 - PA, CF
Grade Level: 10, 11, 12 – 2 semesters, 1 credit
Prerequisite:

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

Engineering II 493970 - PA, CF
Grade Level: 10, 11, 12 – 2 semesters, 1 credit
Prerequisite: Engineering I
Students have an opportunity to investigate engineering and develop skills and understanding of course concepts through activity, project, and problem-based learning. Using a team approach, students will hone their skills, creative abilities, and problem solving skills based upon engineering concepts.

Family and Consumer Science

Credits used as a practical arts credit or as elective credit.

Advanced Child Care & Guidance, Management & Services 493010 - PA, CF
Grade Level: 10, 11, 12 – 2 semesters, 1 credit
Prerequisite: First preference given to students who have taken Family & Consumer Science and Life Span Development

Experiences in this course are designed to provide students with information and experiences in the occupational field of childcare and guidance management and services. Employment opportunities include childcare and guidance, foster care/family child care, and teacher assistants. Emphasis in this course is given to development of competencies related to employment, understanding the child-care profession, child development, health and safety of children, guiding children's behavior, caring for children with special needs and problems, planning management of a child-care program, and the effect of technology in child care guidance management and services. During the second semester, students must complete a 40 hour pre-employment lab at local childcare facility. Students are required to pay for maltreatment checks and must have their own transportation to and from the childcare facility. The class is limited is 15 students and they must complete the application process. This is a required course to be a completer in the Human and Social Services Program of Study. (see below)

Life Span Development - 493020 - PA, CF
Grade Level: 9, 10, 11, 12 - 2 semesters, 1 credit

This course focuses on skills needed to guide the physical, intellectual, emotional and social development of children. Emphasis is given to the development of competencies related to the study of children, pregnancy and prenatal development, birth and the newborn, types of growth and development, stages of growth and development, needs of children, factors influencing the behavior of children, children with special needs, coping with crisis, the effects of technology on child development, and careers related to the area of child development. In addition, experiences are designed to assist students in developing an understanding of the parenting process and of parenting skills, the parenthood decision, costs of having and raising a child, the promotion of child growth and developmentp, effects of heredity and environment on development, rights and responsibilities of parents and children, providing nurturance, guidance techniques for promoting positive behavior, prevention of child abuse and neglect, promoting health and safety of children, caring for the sick or injured child, parenting a "special needs" child, helping children cope with crises, choosing professionals to help with parenting problems, selection of child-care services, and jobs and careers in child and family services. This is a required course to be a completer in the Human and Social Services and the Pre-Education Program of Study.

Family and Consumer Science - 493080 **-** PA, CF
Grade Level: 8, 9, 10, 11, 12 – 2 semesters, 1 credit

This level 1 course is designed to provide students with basic information and skills needed to function effectively within the family and within a changing, complex society. Emphasis is given to family and individual health; relationships; arrangement of living space; wardrobe planning; garment care and construction; child development; nutrition, meal planning and preparation: money management; computer use; and career skills. Upon completion of the course, the student should have developed basic life skills that promote a positive influence on the quality of life. This is a required course to be a completer in the Human and Social Services Program of Study. (see below)

Food Safety and Nutrition - 493110 **-** PA, CF
Grade Level: 10, 11, 12 – 2 semesters, 1 credit

This course focuses on the development of essential food safety practices needed to select, receive, store, prepare and serve food, as well as the skills needed to select food which meets nutritional needs of individuals and families. Students will learn to create and implement an environment of food safety procedures based on the latest FDA Food Code and local regulations. Emphasis is given to the development of competencies related to nutrition, weight control, the food consumer and the effect of technology on food and nutrition. With completion of this course, students should be able to apply sound sanitation practices and to apply sound nutritional

practices which will have a positive effect on their health. Skills learned are applicable to the National Restaurant Association, ServSafe Certification. This is a required course to be a completer in the Culinary Arts and Food Production Management and Services Program of Study (see below0

Food Production, Management & Services - 493120 - PA, CF
Grade Level: 10, 11, 12 **- 2 semester, 1 credit**

Emphasis in this course is given to the development of competencies related to employability; technology in food production, management and services; sanitation and safety; nutrition as related to food service; serving of food; purchasing, receiving and storing of food supplies; production and management of food; use, care and storage of large and small commercial food service equipment; menu planning and modified diets. This is a required Course to be a completer in the Culinary Arts and Food Production Management and Services Program of Study (see below0

Foundations of Teaching (formerly Orientation to Teaching I) - 493240 – PA, CF
Grade Level: 10, 11 – 2 semesters, 1 credit
Foundations of Teaching - Seniors Only (formerly Orientation to Teaching I - Seniors Only) – PA, CF
Grade Level: 12 – 2 semesters, 1 credit
Foundations of Teaching provides students with an overview of teaching as a profession, providing them with an opportunity to observe the educational process. This course is designed to provide students with knowledge that will help prepare them as future teachers and gives students the opportunity to ascertain if the education profession is an appropriate vocational choice. Upon completion of this course, a student should have a better understanding of the roles of the teacher in the profession, understand developmental characteristics of learners, identify teaching strategies, be creative in lesson delivery, and understand historical and current educational issues, policies, and practices. Life Span Development is recommended. This course may be taken concurrently with Foundations of Teaching. Instructor approval is required by application. Students must provide their own transportation. Membership in Educators Rising is required. The class limit is 15 students. Students in Foundations of Teaching - Seniors Only will spend the first semester in the classroom studying the fundamentals of teaching and will complete an internship in a classroom where they will observe and direct assignments during the second semester. Additionally, seniors in Foundations of Teaching - Seniors Only will be certified in CPR and will have the opportunity to take the ParaPro exam.

Methods of Teacher Instruction (formerly Orientation to Teaching II) - 493290 – PA, CF
Grade Level: 11, 12 – 2 semesters, 1 credit
Prerequisites: ***Foundations of Teaching (formerly Orientation to Teaching I)***
Methods of Teacher Instruction provides students with a deeper understanding of teaching as a profession. This course is designed to integrate psychological, sociological, and philosophical foundations which prepare students for positive field experiences. This course encourages prospective teachers to become responsible, professional, and ethical as they explore the teaching profession. The students will research and examine foundations within the educational system. Students will participate in a student teaching internship during both the first and second semesters. Upon completion of this course, a student should have a working knowledge of and employability skills for the education profession. Students will be CPR certified and will have the opportunity to obtain the ParaProfessional certification and to become a Certified Teacher Assistant (CTA). Instructor approval is required. Students must provide their own transportation. Membership in Educators Rising is required. The class limit is 15.

Family and Consumer Science Department Staff
Kim Fowler, HHS
Orientation to Teaching
Cathy Beckham, ACME

FAMILY AND CONSUMER SCIENCES COMPLETER CHECKLIST

2019-2020 and Before

(see 2020-2021 and beyond programs of study and courses on page 22)

Family and Consumer Sciences Family Studies Program of Study

- ☐ Family and Consumer Sciences (REQUIRED) ..... 1 Credit
- ☐ Child Development & Parenting ..... 1 Credit
- ☐ FACS Electives or Capstone ..... 2 Credits
  - Financial Literacy (.5)
  - Food Safety & Nutrition (1)
  - Clothing & Textiles I (.5)
  - Entrepreneurial Experience (1)
  - Capstone (.5)

Child Care Guidance, Management & Services Program of Study

- ☐ Child Development & Parenting (REQUIRED) ..... 1 Credit
- ☐ Child Care & Guidance Management Services (REQUIRED)..... 1 Credit
- ☐ FACS Electives or Capstone..... 1 Credit
  - Family & Consumer Sciences (1)
  - Capstone (.5)
  - Food Safety & Nutrition (1) .....
  - Financial Literacy (.5)

Education and Training Program of Study

- ☐ Orientation to Teaching I (REQUIRED) ..... 1 Credit
- ☐ FACS Electives or Psychology, Sociology or Capstone..... 1 Credit
  - Family & Consumer Sciences (1)
  - Child Development & Parenting (1)
  - Orientation to Teaching II (1)
  - Psychology (.5)
  - Sociology (.5)
  - Abnormal Psychology (.5)
  - AP Psychology (1))
  - Capstone (.5)

Food Production, Management and Services Program of Study

- ☐ Food Safety & Nutrition (REQUIRED)..... 1 Credit
- ☐ Food Production, Management & Services (REQUIRED) ..... 1 Credit
- ☐ FACS Electives ..... 1 Credit
  - Family & Consumer Sciences (1)
  - Entrepreneurial Experience (1)

Fine Arts

One-half credit is required for graduation with additional credits becoming electives.
All fine arts classes are cross-academy.

Introduction to Art - 450000 - FA, CF
Grade Level: 10, 11, 12 — 2 semesters, 1 credit

Art I is a two-semester course designed to teach students to apply the elements of art and principles of design to the creative process. Students are expected to use a variety of media, techniques, processes, and tools to compose original works of art that demonstrate understanding of the elements of art and principles of design, awareness of aesthetic concerns, and the ability to communicate ideas through artwork. Students will exhibit artwork and will assemble portfolios.

If you successfully completed Art I at MHJH you need to take Art II. Art at the 8th grade level does not count.

Art II - 450030 - FA, CF
Grade Level: 10, 11, 12 — 2 semesters, 1 credit
Prerequisite: Art I (JH Art I counts, but NOT 7th or 8th grade art.)

Students will expand their knowledge of the elements of art and principles of design through the research, production, and criticism of visual art. A broad variety of media, techniques, processes, and tools will be used to create original, complex compositions that reflect personal growth, solve visual art problems, and communicate ideas. Students will critique artwork and reflect on societal influences on art and will exhibit artwork and will assemble portfolios that reflect personal growth.

Art III- 450040 - FA, CF
Grade Level: 11, 12 — 1 credit, 2 semesters
Prerequisite: Successful completion of Art II

Students will create artworks that demonstrate increasing ability to apply knowledge of the elements and principles of design in the research, production, and criticism of visual art. Students are expected to use a broad variety of media, techniques, processes, and tools to create original, complex compositions, to demonstrate internalization of art foundations, and to solve more complex art problems throughout the creative process. Students will critique artwork to gain a deeper understanding of the impact of art upon society as well as societal influences on art. Students will exhibit artwork and will assemble portfolios that reflect personal growth across a breadth of media.

Art IV - 450050 - FA, CF
Grade Level: 12 - 1 credit, 2 semesters
Prerequisite: Successful completion of Art III

Students will create a body of artwork demonstrating mastery of the elements and principles of design through the research, production, and criticism of visual art. Compositions will reflect complex problem-solving skills, higher order thinking, risk taking, and innovation throughout the creative process. Student work will be more independent and self-directed, with the teacher primarily serving as facilitator. Artwork will reflect a personal visual voice and will encompass a breadth of composition. Students will exhibit artwork and assemble portfolios that reflect personal growth across a breadth of media and subject matter.

Art History I- 450060 - FA, CF
Grade Level: 10, 11, 12 — 1/2 credit, 1 semester
Prerequisite: none

Art History I is a one-semester course designed to teach students the significance of art throughout history. Students in Art History I will examine periods of art history from around the world, with emphasis on art from ancient civilizations, classic civilizations, the Middle Ages, and the Early and High Renaissance. Students will examine characteristics of art including themes, artists, major artworks, and media and processes involved in creating artwork that is unique to each period of art. Students will also explore societal influences on art from each period as well as the impact art from each period has had on society. Students will apply basic terminology and higher order thinking skills to respond to and to draw inferences from artwork and artists from each period of art history. This course meets the required ½ fine arts credit needed for graduation. No prerequisites are required.

Instrumental Music (Band II - 451040, III - 451050, IV - 451060) - FA, CF
Grade Level: 10, 11, 12 — 1 credit, 2 semesters

The Mountain Home Band Program has long been rec-

ognized as one of the outstanding programs in Arkansas. The MHHS Band has consistently given award-winning performances in both concert & marching competitions throughout the state, region, and on the national stage. The band has been an integral part of community events for over sixty years and is an important part of the history of our area. It is one of the most colorful and active groups on campus. Organizations within the band include marching band, concert band, pep band for football and basketball, jazz band, and small ensembles. Course is open to all students with previous band experience. This course is double-blocked (required) for the fall semester for marching band. Students may choose to single-block for concert band for the second semester. Students receive ½ credit per semester.

Non-Select Female Choir - - FA, CF
Grade Level: 10, 11, 12 - 1 credit, 2 semesters

A non-auditioned female choir that requires no previous choral experience. Open to any high school female. This choir will learn basic vocal and choral techniques.

Non-Select Male Chorus - FA, CF
Grade Level: 10, 11, 12 - 1 credit, 2 semesters

A non-auditioned male chorus that requires no previous choral experience. Open to any high school male. This choir will learn basic vocal and choral techniques.

Select Female Chorus - FA, CF
Grade Level: 10, 11, 12 - 1 credit, 2 semesters

This is an audition only choir which requires previous choral experience. Members of the Select Female Chorus will participate in All-Region competitions as well as Choral Performance Evaluations. This choir will present up to three concerts a year.

Chamber Singers (10th, 11th, 12th grades) - FA, CF
Grade Level: 10, 11, 12 - 1 credit - 2 semesters

The MHHS Chamber Singers is an audition only male and female choir. Members of Chamber Singers are required to audition for All-Region and if applicable All-State Choir. This choir will participate in Region and State Choral Performance Assessments. Chamber Singers will present at least three concerts a year and will also be a traveling group which will perform for various community events.

Theatre I - 459100 - FA, CF
Grade Level: 9, 10, 11, 12 - 1 credit, 2 semesters

Theatre I is a two-semester course in which students learn and demonstrate mastery of theatre academic and performance skills. At the Theatre I level, students will explore theatre fundamentals, analyze and interpret scripts, evaluate artistic work, and use those evaluations to deepen the meaning of their work. Theatre I contains an introduction to stagecraft skills. This course fulfills the .5 fine arts credit required for graduation.

Theatre II - 459110, III - 459120 and IV - 559160 - FA, CF
Grade Level: 10,11, 12 - 1 credit, 2 semesters
Prerequisite: Successful completion of Theatre I

Theatre II and III are two-semester courses which expand the knowledge and performance base of Theatre I. In Theatre II and III students will focus on the practical application of skills developed in Theatre I. Students will take on more complex projects and may begin to develop directorial skills. Ultimately, students will make artistic decisions using multiple forms of inspiration, particularly focusing on social, cultural, and historical context.
Teacher Approval Required

AP Music Theory - 559010 - FA, CF
Grade Level: 10, 11, 12 - 1 credit, 2 semesters

This yearlong course teaches a wide array of musical concept. Along with music theory and beginning composition the students also deal with aural skills, dictation and sight singing. Students learn the basics of music notation and score analysis along with knowledge of basic tonal harmony. This course develops a student's ability to recognize, understand, analyze and describe the aspects and processes of music that is heard or seen on a score. Students engage in a variety of written,m singing and compositional exercis that teach them the many aspects of composition and analysis. The primary goal of the course is to prepare students to take the AP theory exam. Students who pass may earn college credit at a number of colleges and universities.

Bella Voce - 45204 - FA, CF
Grade Level: 10, 11, 12 — 1 credit, 2 semesters

The Bella Voce singers are an all female audition only group. These singers are dedicated to excellence in performance and technique. These students will be expected to participate in All-Region and All-State competitions, as well as regional and state Choral Performance Assessments.

Stagecraft I & II - 459240 - FA, CF
Grade Level: 10, 11, 12 — 1 credit, 2 semesters

Stagecraft I is a two semester course which provides students with experience in all elements of technical theatre. This includes scenery, props, lighting, sound, costume and makeup. Students will generate ideas and original tangible works. Student must be responsible for handling and safely operating a variety of tools used for construction and artistic purposes. This course fulfills the ½ credit required for fine arts and counts toward completing the Fine Arts Achiever designation

Fine Arts Department Staff
Tom Chentnik, CAB
Laken Hopper, CAB
Beth Ivens, CAB
Christy Lawrence, CAB
Karen Maupin, CAB

FINE ARTS CONCENTRATION CHECKLIST 2019-2020 and Before
(see 2020-2021 and Beyond Programs of Study and Courses on page 22)

Visual Art Concentration - 4 credits required
- ☐ Art I ..... 1 Credit
- ☐ Art II ..... 1 Credit
- ☐ Art III ..... 1 Credit
- ☐ Art IV ..... 1 Credit
- ☐ Art History I ..... ½ Credit
- ☐ VARK Art Courses ..... 1 Credit

Theatre Concentration - 4 credits required
- ☐ Theatre I ..... 1 Credit
- ☐ Theatre II ..... 1 Credit
- ☐ Theatre III ..... 1 Credit
- ☐ Theatre Internship ..... 1 Credit
- ☐ Service Learning ..... 1 Credit

Instrumental Music Concentration - 4 credits required
- ☐ Instrumental Music I ..... 1 Credit
- ☐ Instrumental Music II ..... 1 Credit
- ☐ Instrumental Music III ..... 1 Credit
- ☐ Instrumental Music IV ..... 1 Credit

Vocal Music Concentration - 4 credits required
- ☐ Credits from the following classes ..... 4 Credits
  - Chamber Singers
  - Non-Select Female Choir
  - Non-Select Male Chorus
  - Select Female Chorus
  - Bella Voce

Foreign Language

Two credits of the same language are required for the Arkansas Academic Challenge Scholarship and Smart Core diploma.

German I - 442000 - CF
Grade Level: 10, 11, 12 — 1 credit, 2 semesters
Prerequisite: C average or higher in English is recommended.

The purpose of this beginning language course is to introduce the student to German vocabulary and grammar as a foundation for building communicative and cultural proficiency. Students will participate in verbal, aural and written exercises using games, songs and videos to improve proficiency in the language. They will be exposed to German history, geography and culture through engaging projects and activities.

German II - 442010 - CF
Grade Level: 11, 12 — 1 credit, 2 semesters
Prerequisite: German I

This course, which is a continuation of German I, concentrates on the learning of grammar, conversation, reading and writing. It encourages the creativity of the student with independent writing of dialogues and conversation. It enhances reading skills with gradual increase in length and complexity of subject matter. Culture and customs are interwoven through all work.

German III - 442030 - CF
Grade Level: 12 — 1 credit, 2 semesters
Prerequisite: German I and II

This course uses the vocabulary, structure, and cultural achievement of the first two years as a basis. It is a review, reinforcement, and expansion of all areas of previous language learning in order to lead the students to express opinions and become involved in various topics of German. Numerous topics provide an in-depth view of current German attitudes and opinions within the framework of the language with which the students are now very familiar and at ease. The sense of accomplishment is foremost in this level of language learning.

Foreign Language Department Staff
Chris Francis, CAB
David Rodriguez, ACME
Christy Lawrence, HHS
Shannon Wescoat, HHS

Spanish I - 440000 - CF
Grade Level: 10, 11, 12 — 1 credit, 2 semesters
Prerequisites: C average or higher in English is recommended.

This course offers an introduction to basic grammar, vocabulary, culture and customs of the Spanish language through various instructional techniques with emphasis on listening, reading, writing and speaking.

Spanish II - 440020 - CF
Grade Level: 11,12 — 1 credit, 2 semesters
Prerequisite: Spanish I

This course provides a continuation of the study of Spanish grammar, vocabulary and culture with the emphasis on conversational ability.

French I - 441000 - CF
Grade Level: 10, 11, 12 — 1 credit, 2 semesters
Prerequisites: C average or higher in English is recommended.

This course provides introduction for basic grammar and vocabulary the French language through various instructional techniques with emphasis on reading, writing, listening, and speaking. The culture and customs of Francophone countries will be explored through reading, research, photographs, singing, and videos.

French II - 441010 - CF
Grade Level: 11, 12 — 2 semesters, 1 credit
Prerequisite: C or higher in French I or teacher recommendation

This is a continuation of the study of French grammar, vocabulary and culture, with emphasis on conversational ability.

Language Arts

Four credits of English are required. Oral communications is also required for graduation

English I - 410000 - E
Grade Level: 9 - 2 semesters, 1 credit
Prerequisite: Successful completion of the previous level of English

Open to students who have failed to earn credit for English I and must recover that credit in order to advance to English II.

English II - 411000 - E
Grade Level: 10 — 2 semesters, 1 credit
Prerequisite: Successful completion of the previous level of English.

Major emphasis for the course will be on the development and improvement of both writing and reading skills.

English III - 412000 - E
Grade Level: 11 — 2 semesters, 1 credit
Prerequisite: Successful completion of the previous level of English.

Major emphasis for the course will be on the development and improvement of both writing and reading skills. Primary focus is on American Literature.

English IV - 413000 - E
Grade Level: 12— 2 semesters, 1 credit
Prerequisite: Successful completion of the previous level of English. Primary focus is on British Literature.

Major emphasis for the course will be on the development and improvement of both writing and reading skills.

Pre-AP English II - 41100P - E
Grade Level: 10 — 2 semesters, 1 credit

Pre-AP English III - E
Grade Level: 11-- 2 semesters, 1 credit

Pre-AP English is designed for those students who already have good control of basic grammar skills and who are interested in intensive literary analysis. Major emphasis will be given to the writing of essays related to the literature studied; the development of critical thinking skills will receive special attention. Students will be required to read extensively outside of class. Although enrollment is open to all students, those interested in Pre-AP English should consider the following criteria: achievement test scores, past performance in English classes, and teacher recommendation. Pre-AP English is strongly recommended as preparation for Advanced Placement English IV. Course is open to sophomores (Pre-AP English II) and juniors (Pre-AP English III).

AP English Literature and Composition - 517040 - E, CF
Grade Level: 12 — 2 semesters, 1 credit

This is a class designed for students who wish to pursue college-level studies while in high school. Participating colleges will grant college credit in English to those students who do well on the Advanced Placement Test, which is taken at the end of the course. Students will be expected to take the test. In the course, students will be required to accomplish intense college-level reading, writing, interpretation, and critical thinking. Although enrollment is open to all students, Pre-AP courses are strongly recommended. If a student has not taken Pre-AP courses, he/she must be interviewed and supply writing samples.***If one achieves the minimum score on the AP testing at the end of this course, many universities will grant authorized credit/placement. Check the handbook of that institution for more information because each sets its own criteria.***

Creative Writing - 417010 - E, CF
Grade Level: 9, 10, 11,12-- 1 semester, .5 credit

Creative Writing is a one-semester English elective course designed to engage students in the writing of poetry, short fiction, and personal narratives with an emphasis on developing and exercising imagination. Students will analyze and discuss exemplary texts to develop creative writing skills. Students will critique and refine writing through guided discussions, collaborative revisions, and individual reflections. Students will produce a portfolio of creative work that reflects student growth and understanding of the techniques of published authors. Students will share writing in a variety of ways and research methods for publishing original work.

Comp I - 519931 - E
Grade Level: 11, 12 — 1 semester, 1 high school credit, **3 college hours from ASU-MH**

Substitutes for English III or IV at MHHS and Comp I at ASU-MH. Tuition **MUST** be paid to ASU-MH and concurrent credit forms filled out for the college. ***No student should sign up to take this course if he or she does not already have a 19 ACT score in English and Reading*** . Studies and practices the fundamentals of written communication with an emphasis on the various types of essays. If a student drops a college course at MHHS, he/she must also drop the course at ASU. If the course is not dropped at ASU, the student will receive an F on his/her college transcript

Comp II - 519942 - E
Grade Level: 11, 12 — 1 semester, 1 high school credit
3 college hours from ASU-MH
Prerequisite: successful completion of Comp I with a C or better

Substitutes for English IV at MHHS and Comp II at ASU-MH. Based on reading and discussion of various types of writing, the students' essays will provide practice in different kinds of rhetorical development including research and documentation. If a student drops a college course at MHHS, he/she must also drop the course at ASU. If the course is not dropped at ASU, the student will receive an F on his/her college transcript

Oral Communications - 414000 - OC
Grade Level: 10, 11, 12 — 1 semesters, .5 credit

This course emphasizes the importance of speech, fundamentals of communication, public speaking, speech organization and delivery.

Library Skills - 970110
Grade Level: 12 (10th and 11th with librarian permission)
1 credit, 2 semesters
Prerequisite: Principal or library recommendations. Course is limited to 2 students.

The purpose of this course is to help students use a library more effectively. Through individualized instruction and on the job training, students will learn more about the general operations of a library, technology use and computers, information sources, how to develop special projects and how to assist patrons seeking information, reading and research guidance. The student will aid the library staff in various aspects of a quality library program including circulation, shelving, processing materials, publicity, promotion and special programs. Grades are based on practical aspects of the job including dealing with and respecting patrons, completion of assigned tasks and projects, following written and verbal directions and assigned shelving. Each student will be given a semester final exam. Students who take this course need to show evidence of a strong sense of responsibility, self motivation and excellent attendance.

Transitional Literacy Ready - 49603T - PA
Grade Level: 11 & 12
Prerequisite: Counselor approval based on test scores

This course is an innovative, dynamic course built to help students master the literacy skills needed for three core subject areas — English, social science and science. This course is suited for students who have not been determined as college ready. The course is built with rigor, innovative instructional strategies, and a concentration on contextual learning that departs from procedural memorization and focuses on engaging the students in a real-world context. This course will not replace one of the 4 English credits required for graduation.

Language Arts Department Staff

Fran Kemp, CAB, Department Chair
Tara Camp, ACME
Jennifer Drewry, HHS
Toni Rogers, CAB
Haley Mattick, CAB
Devona Pendergrass, Library

Mathematics

Four credits are required for graduation.

Geometry - 431000 - M
Grade Level: 10, 11, 12 — 2 semesters, 1 credit
Prerequisite: Algebra I

Geometry is the second required math course for graduation. It is designed to introduce and explore the basic concepts of space. Geometry combines plane, spatial and coordinate geometry. The Geometry course focuses on concepts such as congruence, similarity, measurement, and dimension. Students will express geometric properties using equations. Algebra I skills are incorporated throughout the course.

Bridge to Algebra II - 435000 - M
Grade Level: 10, 11, 12 — 2 semesters, 1 credit
Prerequisite: Algebra I

Bridge to Algebra II is designed to help students transition from Algebra I to Algebra II. The course will reinforce linear concepts previously taught in Algebra I. Students will also be expected to master quadratics and exponential concepts through modeling functions and summarizing, representing, and interpreting data. The course is intended to introduce higher order concepts to prepare students for success in Algebra II. This course may be taken concurrently with Geometry but cannot be taken concurrently with Algebra II. No student may enroll in Bridge to Algebra II if they have already completed Algebra II.

Algebra II - 432000 - M
Grade Level: 10, 11, 12 — 2 semesters, 1 credit
Prerequisite: Algebra I and Geometry

Algebra II is a required math course for graduation. The course focuses on the real and complex number systems. Students will study polynomial and rational expressions, equations, inequalities, and functions. Students will model using linear, quadratic, and exponential models. Interpreting data and determining probability will also be incorporated throughout the course. Upon completion of this course, students will be prepared to pursue pathways for Smart Core and or General Core graduation. It is recommended that a student complete Algebra II before enrolling in Chemistry or Physics. This course may NOT be taken concurrently with Bridge to Algebra II.

Pre-AP Algebra II - 43200P - M
Grade Level: 10 only - 2 semesters, 1 credit
Prerequisites: Pre-AP Algebra I and Pre-AP Geometry or teacher recommendation

Pre-AP Algebra II is designed for sophomores in the Pre-AP/AP math sequence. This course satisfies the third math credit for graduation. The curriculum is an enhanced Algebra II course that will better prepare students for success in AP Calculus.

Algebra III - 439070 - M, CF
Grade Level: 11, 12 — 2 semesters, 1 credit
Prerequisite: Complete Algebra II or currently enrolled in Algebra II and counselor approval

Algebra III is designed to enhance the higher level thinking skills developed in Algebra II. Students will be challenged to increase understanding of algebraic, graphical and numerical methods to analyze, translate and solve polynomial, rational, exponential and logarithmic functions.

Advanced Topics and Modeling in Mathematics - 439050 –M, CF
Grade Level: 11, 12 — 2 semesters, 1 credit
Prerequisites: Algebra I, Geometry, and Algebra II

Advanced Topics and Modeling in Mathematics is one of the math courses that satisfy the Smart Core math graduation requirements. This course builds on Algebra II to explore functions, patterns and data interpretation. Emphasis will be placed on applying modeling as the process of choosing and using appropriate mathematics. Students will present and process their reasoning numerically, graphically, symbolically, and verbally. Completion of this course will prepare students to enroll in a fifth credit of mathematics, either Precalculus or Statistics.

Precalculus - 433000 - M, CF
Grade Level: 11, 12 — 2 semesters, 1 credit
Prerequisite: Algebra I, Geometry, and Algebra II (recommended with grade of A or B)

Precalculus is one of the higher level math courses that satisfy the Smart Core math graduation requirements. It is designed to prepare the student for college level courses such as College Algebra and/or Calculus. Any student interested in advanced business, engineering, pre-med or architecture is encouraged to take this course. Precalculus will emphasize the study of trigonometric functions and identities, right triangle trigonometry and circular methods to represent mathematical concepts.

Pre-AP Precalculus - 43300P - M, CF
Grade Level: 11 only - 2 semesters, 1 credit
Prerequisite: Pre-AP Algebra II

Pre-AP Precalculus is designed for juniors in the Pre-AP/AP math sequence. This course is one of the higher level math courses that satisfy the Smart Core math graduation requirements. This course has an enhanced Precalculus curriculum to better prepare students for AP Calculus.

ASUMH Technical Math - 539970 - M, CF
Grade level: 11,12 - 1 semester, 1 credit
Note: This does not count as a smart core credit.
Pre-requisites: must have 3 prior math credits and ACT score of 16 or higher

This course focuses on a review of arithmetic, calculator use, linear and angular measurement, use of formulas and equations, and elementary applications of Geometry. (Credit not applicable toward Associate of Arts degree). Students will learn the necessary mathematical tools to solve problems in the fields of auto mechanics, welding, machining, and HVAC programs. They will be able to make measurements using the dial caliper, tape measure, protractor, vernier caliper, and micrometer.

AP Calculus AB - 534040 - M, CF
Grade Level: 12 - 2 semesters, 1 credit
Prerequisite: Pre-AP Precalculus

AP Calculus is designed for seniors in the Pre-AP/AP sequence. This course is a higher level mathematics course that serves as an elective math course for seniors. This AP course will explore derivatives, integration, limits and approximation through application and modeling. A multi-representational approach to calculus will be used as students will express answers graphically, numerically, analytically and verbally. This course can be taken for concurrent credit from ASU-MH. Any student who enrolls in the course for concurrent credit and then drops the course from his or her high school schedule must also formally withdraw from the course through ASU-MH following the course withdrawal procedures.

College Algebra - 539900 -M, CF
Grade Level: 12 — 1 semester, 1 credit
3 College hours from ASU-MH
Prerequisites: Precalculus, ACT Math Score of 19 or higher and ACT Reading score of 19 or higher.

This course studies quadratic equations and inequalities; polynomial, rational, exponential, and logarithmic functions; graphing functions, combining functions, inverse functions; solving systems of linear and nonlinear equations; and use of matrices and determinants. Emphasis on applications and problem solving. Any student who enrolls in the course for concurrent credit and then drops the course from his or her high school schedule must also formally withdraw from the course through ASU-MH following the course withdrawal process.

Garrett Rucker, Department Chair, ACME
Sarah Gipson, ACME
John Guffey, HHS
Buffy Houston, HHS
Jennifer Keenan, ACME
James Kerr, HHS
Kyle Stephens, ACME
Kathy Wham, CAB
Meredith Wright, CAB

Medical Professions Education

Credits used as a practical arts credit or as elective credit

Intro To Medical Professions - 590260 - PA, CF
Grade Level: 9, 10, 11, 12— .5 credit - 1 semester

Experiences in Introduction to Medical Professions Education are designed to provide students with basic information needed for a career in the health care field. In this comprehensive course, emphasis is given to the development of competencies related to HOSA, study skills, medical history and events, health care systems, health care careers, personal qualities, medical ethics and legal responsibilities, and professionalism. This course will not count toward any CTE Program of Study.

Medical Anatomy/Physiology - 529900 - PA, CF
Grade: 10, 11, 12—1 credit - 1 semesters

This course focuses on anatomy and physiology of body systems and the diseases of those systems. Specific areas of study include the basic structure of the human body, processes of disease, and the following body systems; integumentary, skeletal, muscular, circulatory, lymphatic, nervous, sensory, respiratory, digestive, urinary, endocrine, and reproductive. ***May also be taken for a science credit and concurrent credit from ASU-MH.***

Medical Terminology - 590690 - PA, CF
Grades: 10, 11, 12— 1 credit—1 semester

This course assists students in developing the language used for communication in the health care profession. Areas of study include fundamental word structure, organization of the body, diagnostic and imaging procedures, pharmacology, general medical terms and body systems. ***Course may be taken for concurrent credit from ASU-MH.***

Medical Procedures - 590680 - PA, CF
Grade: 9, 10,11,12— .5 credit - 1 semester

Medical Procedures is a one-semester course which helps students develop specific skills needed in the health care profession. Emphasis is given to the development of competencies related to infection control, medical math, abbreviations, and charting. This course will not count toward any CTE Program of Study.

Medical Professions Department Staff
Alecia Czanstkowski, HHS
Shannon Ellison
Kyle Goetting

Medical Clinical Specialization/Internship - 490510 - PA, CF
Grades: 12—1/2 credit—1 semester
Prerequisite: Must be a senior, prior medical professions education course with a **B** average, **and instructor approval by application. TB skin test and uniform required.** Must provide own transportation**.**

This course will provide classroom and clinical observation experiences that prepare students for a career in health care. Clinical observation will be held at Baxter Regional Medical Center. Course may be taken for articulated credit from ASU-MH.

Foundations of Sports Medicine - 494050 - PA, CF
Grades: 10, 11, 12— 1 credit—2 semesters

This course is meant to introduce students to the realities of the Sports Medicine field and educate them about the role an Athletic Trainer plays in the field. Students will learn a variety of concepts in healthcare from sports medicine's hitorical foundations to injury management. This course will provide students an opportunity for hands on learning, and teaches how to network with other Athletic Trainers as well as other healthcare professionals in the community. Journal Requirements: Students will be responsible for maintaining a Sports Medicine Journal, recording all necessary information indicated int he discussion of each topic covered in a day. This journal will be utilized daily and serve as a reference tool and ongoing record of applications and activities for the entirety of the course. It is a course requirement, appropriately weighted as to be a significant portion of the course grade.

Foundations of Health Care - 495350- PA, CF
Grades: 9, 10, 11, 12— 1 credit—2 semesters

This course is designed to introduce students to medical professions and the basic foundational skills for first aid and the treatment of patients. Along with Anatomy and Physiology this is a foundation core course for subsequent education and training in health services. This course is a revised combination of Introduction to Medical Professions and Medical Procedures.

MEDICAL PROFESSIONS COMPLETER CHECKLIST 2019-2020 and Beyond

(see 2020-2021 and Beyond Programs of Study and Courses on Page 22)

Medical Professions Program of Study

- ☐ **Introduction to Medical Professions (REQUIRED) .....(.5 Credit)**
- ☐ **Human Anatomy/Physiology (Med Pro Ed) OR**
  Human Anatomy & Physiology (Science) (REQUIRED) .....(1 Credit)
- ☐ **Medical Procedures (.5 Credit)**

- ☐ Additional Medical Electives.....(1.5 Credits)
  - Medical Terminology (.5 Credit)
  - Capstone (.5 Credit)
  - Medical Clinical Specialization/Internship (.5 Credit, Seniors Only)

Students interested in enrolling in the CNA program at ASU-MH must take and pass at least (1) medical class at Mountain Home High School and Have a "C" average. (Medical Procedures or Medical Internship is recommended. Medical Procedures must not be taken online.)

Navy National Defense Cadet Corps

Naval Science I - 485950-480950 - PA, CF, PE, H
Grade Level: 9, 10, 11 — 2 semesters, 1 credit

This is an introductory course. Students learn the basics of military leadership, discipline, courtesy, respect, organization, and drill. Topics include: naval traditions, customs and terminology and health and wellness. Physical fitness training is conducted weekly. Field trips to military bases take place in the spring.

Naval Science II - 495860 - PA, CF, PE, B
Grade Level: 10, 11, 12 — 2 semesters , 1 credit
Prerequisite: Naval Science I

Naval Science II is an intermediate course, which continues leadership topics. Other topics include US History from a sea power perspective and Nautical Sciences

Naval Science III - 495870 - PA, CF, PE, H
Grade Level: 11, 12 — 2 semesters , 1 credit
Prerequisite: Naval Science I or II

Students receive advanced knowledge of military leadership, discipline, courtesy, respect, organization and drill. Topics include leadership and management techniques; naval history, military law, astronomy, navigation, naval strategy tactics, diplomacy, naval weapons and orienteering. Field trips to military bases also take place in the spring.

Naval Science IV - 495910 - PA, CF, PE, H
Grade Level: 12 — 2 semesters, 1 credit
Prerequisite: Naval Science III

This class is a leadership seminar providing hands on leadership experiences. Topics include communication, goal setting, planning, organizing, training and lesson development and conduct. Students will design and conduct classroom training.

Lab/Drill Period
Grade Level: 10, 11, 12 — 2 semesters, 0 credit

This period is designed to encompass the Armed Drill Team, Color Guard, and Cadet Corp Staff.

*Students will be required to complete 24 hours of community service (36 hours for non-drill team members) per year. Students are expected to dedicate a significant amount of time outside of class for team practice, including summer activities.

**An annual sports physical is required for all cadets. There is a $15 fee due each year for organizational gear.

A student who completes two (2) semesters of a Junior Reserve Officer Training Corps program shall receive credit for both of the following requirements for graduation from high school under the rules of the State Board of Education:
(1) one-half (½) credit of physical eduation; and
(2) one-half (½) credit of health

Navy Cadet Corp Department Staff
Mr. Bud Zorman

COMPLETER CHECKLIST (Any combination of 3) 2019-2020 and Before
(see 2020-2021 and Beyond Programs of Study and Courses on 22)

Navy Cadet Corp Program of Study

- ☐ Navy National Defense Cadet Corps I ..... 1 Credit
- ☐ Navy National Defense Cadet Corps II ..... 1 Credit
- ☐ Navy National Defense Cadet Corps III ..... 1 Credit
- ☐ Navy National Defense Cadet Corps IV ..... 1 Credit

Physical Education

One-half credit of PE is required for graduation. Health is also required for graduation.

Personal Fitness - 485000 - PE
Grade Level: 10, 11, 12 — 1 semester, 1/2 credit

This course will offer weight training and various heart-healthy exercises. In addition, students will participate in a variety of both team and lifetime activities.

Health and Safety - 480000
Grade Level: 10, 11, 12 — 1 semester, 1/2 credit.

This course covers, but is not limited to, units in nutrition, drug abuse, alcohol, tobacco, self-esteem, boating education certification, mental health, physical activity, STD's and HIV/AIDS, CPR/AED training.

Athletics
Grade Level: 10, 11, 12 — 1 semester, 1/2 credit
Students interested in participating in our sports programs should sign up for the PROPER semester that the sport is offered. Football and basketball are both double blocked; volleyball is single blocked 7th period.

Driver Education - 690040
Grade Level: 10, 11, 12 — 1 semester, 1/2 credit
Prerequisite: It shall be the responsibility of the student to have their written test learners permit when the semester in which they are enrolled in driver education begins. If a student does not have their written test learners permit when the semester in which they are enrolled in driver education, that student must obtain their written test learners permit by the time the driving portion of the class begins. Students who do not obtain their written test learners permit allowing them to drive in the semester in which they are enrolled in driver education will fail driver education and an F will be placed on their transcript.

Physical Education Department Staff
Steve Ary, ACME
Josh Fulcher, HHS
Dell Leonard, HHS
Bryan Mattox, HHS
Mark Paden, HHS

Baseball	after school	1/2 credit
Bowling	after school	no credit
Boy's Basketball	2 semesters	1 credit
Cheerleading	8th period - 2 semesters	1 credit
Cross Country	before/after school	1/2 credit
Dance	7th period - 2 semesters	1 credit
Fast Pitch Softball	after school	1/2 credit
Football	2 semesters	1 credit
Girl's Basketball	2 semesters	1 credit
Golf	after school	1/2 credit
Soccer	after school	1/2 credit
Swimming/Diving	after school	1/2 credit
Tennis	after school	no credit
Track and Field	after school	1/2 credit
Volleyball	7th period - 2 semesters	1 credit
Wrestling	after school	no credit

Publications

Credits used as a practical arts credit or as elective credit

Yearbook - 10th-41501Y, 11th-41502Y, 12th-41503Y - PA,CF
Grade Level: 10, 11, 12 — 2 semesters, 1 credit
Prerequisite: Minimum 2.5 GPA and completion of an application, which must be approved by the instructor.

Students will produce the high school yearbook. Staff responsibilities include selling advertising, taking pictures, writing copy, designing layouts, and working with the computer. Students will be expected to develop skills in writing and graphic design. Although a majority of work is accomplished in class, students will be expected to contribute a significant amount of time outside of class as deadlines demand. Applications to be on staff will be made to the faculty advisor prior to student registration.

Journalism - 10th-41501J, 11th-41502J, 12th-41503J- PA,CF
Grade Level: 10, 11, 12 -- 2 semesters, 1 credit
Prerequisite: Minimum 2.5 GPA and completion of an application which approved by the instructor.

Students will be introduced to the fundamentals of scholastic journalism through producing print and social media content for ***Contrails.*** Emphasis will be on learning basic news writing skills. Attention will be given to feature and editorial writing, reviews, and layout design. Students will have regular class assignments. While much of the work can be accomplished in class, staff members will be expected to make a commitment that will involve significant time after school until deadlines are met. Applications to be on staff will be made to the faculty advisor prior to student registration.

Publication Department Staff
Brooke Chapman

Science

Three credits are required for graduation.

Physical Science - 423000 - S
Grade Level: *9*-12 - 1 credit, 2 semesters

Physical science begins the study of higher-level physics and chemistry and continues educating the student in the nature of science. In this course students will study the major discoveries such as atoms, the Periodic Table, chemical reactions, gravity, forces, and light waves that have shaped our thinking about the physical world. Students are expected to use suitable mathematics and collect and analyze data. This course serves as a transition into other science courses.

Chemistry-Integrated - 421000 - S, CF
Grade Level: 10, 11, 12 —1 credit, 2 semesters
Prerequisite: Physical Science (recommended) and Algebra II

Chemistry is the study of matter and the changes it undergoes. Students will explore topics including atomic structure, periodicity, chemical bonding, chemical reactions, stoichiometry, gas laws, acids and bases, and nuclear chemistry. Strong mathematical and critical thinking skills are essential to succeed. It is strongly recommended that students achieved at least a C in Algebra II before enrolling. This course includes laboratory experiments requiring a firm understanding of the material being covered.

Pre-AP Chemistry - 42100P - S, CF
Grade Level: 10, 11, 12 – 1 credit, 2 semesters
Prerequisite: Successful completion of Physical Science with a minimum of a B average and prior completion of Algebra II.

Pre-AP Chemistry is a more rigorous treatment of the concepts and topics covered in regular Chemistry. Students will be expected to understand and function at higher levels of operation and will be expected to learn more on an individual basis. Materials used will be similar to that of AP Chemistry. The course will emphasize reading, math skills, critical-thinking and problem-solving. The depth of this course requires that additional time be spent outside of class. The laboratory experiments require greater mathematical applications and analysis.

Physics - 422010 - S, CF
Grade Level 11, 12 - 1 credit, 2 semesters
Prerequisite: Prior completion of Algebra II and Precalculus is highly recommended, but at a minimum, concurrent enrollment in Algebra II is required.

Physics is a useful foundation course for a variety of career fields and contributes to the understanding of such college courses such as chemistry, physics, and engineering. This course deals with the nature of physics and each of its major areas: motion, mechanics, light, sound and electricity. Classroom and laboratory works are fully integrated. A calculator with trigonometric and scientific functions is mandatory. AP Physics may not be taken for credit if Physics has already been taken.

AP Physics 1 - 522080 – S, CF
Grade Level: 11, 12 – 1 credit, 2 semesters

Prerequisite: Prior completion of Algebra II and Pre-Calculus is highly recommended, but at a minimum, concurrent enrollment in Algebra II is required as well as teacher recommendation.

AP Physics I is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. A calculator with trigonometric and scientific functions is mandatory. Students may receive college credit by passing a comprehensive AP exam at the end of the year.

Biology - 420000 - S
Grade Level: 10-12 — 1 credit, 2 semesters

This course is designed as a general survey of the living world, including the study of both plants and animals and their relationship to man. Biology investigates the chemistry and role of cells in life processes, genetics, evolution and the diversity of life. Students will study the world through the study of behavioral relationships, ecology, and the global impact of ecological issues. It continues to educate the student in the nature of science. Students should be expected to spend time viewing and classifying life forms in addition to collecting and analyzing data. This course is an important foundation course of a long list of career fields.

Pre–AP Biology - 42000P - S
Grade Level: 10, 11, 12 – 1 credit, 2 semesters

Pre-AP Biology is strongly recommended as preparation for Advanced Placement Biology. Pre-AP Biology is a more rigorous treatment of the concepts and topics covered in regular Biology. Although enrollment is open to all students, those interested in Pre-AP Biology should consider the following criteria: achievement test scores, past performance in science classes, and teacher recommendation. Students will be expected to understand and function at higher levels of operation and will be expected to learn more on an individual basis. Emphasis is on the application of the content material in past, present and future situations with a mathematical approach for recording experimental data and critical evaluation for analyzing, synthesizing, and formulating logical conclusions.

Zoology - 524010 - S, CF
Grade Level: 11, 12 —- 1/2 credit, 1 semester
Prerequisite: Successful completion of Biology

Zoology or animal biology involves a broad survey of the animal kingdom including structure, function, embryology, classification, and behavior of both invertebrates and vertebrates. A zoology specimen collection is required.

Environmental Science - 424020 - S, CF
Grade Level: 11, 12 – 1 credit, 2 semesters
Prerequisite: Successful completion of Biology

This course looks at the natural environment and how it functions from chemical, biological and physical perspectives. In addition, it takes a serious look at current problems within the environment, the solutions that exist and the frustrations involved with making sensible change.

Medical Human Anatomy/Physiology - 529900 - PA, S, CF
Grade: 10, 11, 12—1 credit - 2 semesters

This course focuses on anatomy and physiology of body systems and the diseases of those systems. Specific areas of study include the basic structure of the human body, processes of disease, and the following body systems; integumentary, skeletal, muscular, circulatory, lymphatic, nervous, sensory, respiratory, digestive, urinary, endocrine, and reproductive.

Animal Science 2 - 491181 - PA, S, CF
Grade Level: 10, 11, 12—1/2 Credit - 1 semester
Prerequisite: Successful completion of Animal Science 1

This course is a scientific approach to animal science using scientific principles and applied management practices. An emphasis on selection and industry review will be based on scientific data.

Forensics - 529010 - S, CF
Grade Level: 11, 12 - 1/2 credit, 1 semester

Successful completion of Biology and Chemistry is recommended. Forensic Science incorporates scientific processes into the reading, writing, reasoning ability and laboratory competencies used in modern criminal investigations. Students will study the role a forensic scientist plays in analyzing various types of physical evidence, crime scenes, fiber analysis, toxicology, arson, fingerprinting, ballistics evidence, and hadwriting and voice analysis. This class is suggested for Juniors and Seniors only.

AP Environmental Science - 523030 - S, CF
Grade Level: 11, 12 — 1 credit, 2 semesters

Prior completion of Biology and Chemistry (with a B or better) is recommended. This course deals with advanced concepts in environmental science. Topics covered include, but are not limited to, populations and their affects on the environment, the role of modern civilization on the future of the earth, and various cycles including nitrogen, carbon, water cycles. There will be AP designed laboratory activities to support the many concepts as well as some student generated labs. Students may receive college credit by passing a comprehensive AP exam at the end of the year.

AP Biology - 520030 - S, CF
Grade Level: 11, 12 — 1 credit, 2 semesters

Prior completion of Biology and Chemistry (with a B or better) and instructor approval is required. This course consists of the study of molecular and cellular biology, organismal biology and population biology. Students may receive college credit by passing a comprehensive AP exam at the end of the year.

Anatomy and Physiology - 424030 - S, CF
Grade Level: 10 - 12 — 1 credit, 2 semesters
Prerequisite: Prior completion of Biology is highly recommended, but at a minimum, concurrent enrollment in Biology is required as well as teacher recommendation and instructor approval

The Arkansas K-12 Science Standards for human anatomy and physiology is a science course that continues to develop conceptual understanding of the core ideas, science and engineering practices, and crosscutting concepts in biology - integrated. Students in human anatomy and physiology develop understanding of key concepts that help them make sense of the interactions among systems within the human body.

AP Chemistry - 521030 - S, CF
Grade Level: 12 — 1 credit, 2 semesters
Prerequisite: Minimum grade of a B in Algebra II, Biology and Chemistry and instructor recommendation

This course deals with advanced concepts in chemistry. This includes atomic structure, periodicity, chemical bonding, reactions, stoichiometry, gas laws, thermochemistry, acids, equilibria, thermodynamics and electrochemistry. Laboratory work and chemistry problem solving make up an integral part of the course. A strong background in math and chemistry are necessary. Students may receive college credit by earning a passing score on the AP Chemistry Exam at the end of the year.

Science Department Staff

Tom Ethridge, Department Chair, ACME
Madison Ingle, HHS
Aaron Mead, HHS
Tyler Blasdel, HHS
Katie Southard, ACME
Laurie Bergenstock, ACME

SCIENCE CONCENTRATION CHECKLIST 2019-2020 and Before

(see 2020-2021 and Beyond Programs of Study and Courses on page 22)

Program of Study

Physical Science

- ☐ Physical or pre-AP physical science ..... 1 Credit
- ☐ Chemistry or pre-AP Chemistry..... ..... 1 Credit
- ☐ Physics or AP Physics 1.....1 Credit
- ☐ AP Science.....1 Credit
  - •Chemistry
  - •Environmental

Life Science

- ☐ Biology or pre-AP Biology ..... 1 Credit
- ☐ Chemistry or pre-AP Chemistry ..... 1 Credit
- ☐ Human Anatomy & Physiology ..... 1 Credit
- ☐ AP Science ..... 1 Credit
  - •Biology
  - •Environmental
  - •Chemistry

Note: Though a Biology or Physical Science class may not be listed in the above requirements, they are required for graduation.

SCIENCE SEQUENCING

(3 Science credits are required for graduation)

10th grade
SCIENCE

Biology
Pre-AP Biology
Pre-AP Chemistry
Chemistry

Physical Science
If failed in the 9th grade

**Biology and a physical science course are required for graduation

11th - 12th grade
SCIENCE

Biology
If failed in 10th

Physical Science
If lacking 1 full credit

Life Science Electives
AP Biology; Human A&P; Zoology; Forensics;
Medical Human A&P; Environmental Science;
AP Environmental Science
Animal Science 2

(Note course descriptions, prerequisites and recommendations)

Physical Science Electives
Chemistry; Pre-AP Chemistry; AP Chemistry;
Physics; AP Physics I

(Note course descriptions, prerequisites and recommendations)

Social Studies

Class of 2017 and after:

3 credits required for graduation. (Smart Core and Common Core diplomas)

.5 credit Civics
1 credit in World History
1 credit U.S. History
.5 credit Economics

U.S. History - 470000 - SS
Grade Level: 10, 11, 12, 1 credit - 2 semesters

United States History Since 1890 focuses in greater depth on the effects of changing culture, technology, world economy, and environment, as well as the impact of global conflicts on contemporary society in the United States. The desired outcome of this course is for students to develop an understanding of the cause-and-effect relationship between past and present events, recognize patterns of interactions, and understand the impact of events in the United States within an interconnected world. United States History Since 1890 examines the emergence of the United States as a world power to the present. Students will examine the political, economic, geographic, social, and cultural development of the United States of America from the late nineteenth century into the twenty-first century. **Required for graduation.**

AP Psychology - 579120 - SS
Grade Level: 11, 12, 1 credit - 2 semesters
GPA: 3.5 or teacher recommendation is recommended

The purpose of the AP course in Psychology is to introduce the systematic and scientific study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice.

Economics - 474300 - SS
Grade Level: 10, 11, 12 – ½ credit, 1 semester
Economics emphasizes economic decision making. Students will explore the interrelationships among government, consumers, producers, resources, and labor as well as the interrelationships between national and global economies. Students will focus on financial literacy and personal financial management. Additionally, students will examine the relationship between individual choices and the direct influence of these choices on occupational goals and future earning potential. **Required for graduation.**

Civics - 472000 - SS,
Grade Level: 10, 11, 12 - ½ credit, 1 semester

The focus of Civics is the application of civic virtues and democratic principles and investigation of problem solving in society. This course provides a study of the structure and functions of federal, state, and local government. Civics also examines constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. **Required for Graduation**.

Abnormal Psychology - 495370 - CF
Grade Level: 10, 11, 12, 1/2 credit - 1 semester
Prequisites: Students must have completed and passed both Psychology and Sociology. Exceptions are made on a case by case basis.

History, classification, diagnosis, and treatment of mental illness. Includes a discussion of causes and prevention of psychological disorders, and legal/ social issues regarding mental illness.

World History - 471000 - SS
Grade Level: 10 - 1 credit - 2 semesters

World History provides an in-depth study of the history of human society from Era 6: Emergence of First Global Age 1450-1770 to Era 9: Contemporary World since 1945. World History is designed to assist students in understanding the human condition, how people and countries of the world have become increasingly interconnected across time and space, and the ways different people view the same event or issue from a variety of perspectives. This course develops an understanding of the historical roots of current world issues, especially as they pertain to international/global relations. It requires an understanding of world cultures and civilizations, including an analysis of important ideas, social and cultural values, beliefs, and traditions. Knowledge of past achievements and failures of different peoples and nations provides citizens of the 21st century with a broader context within which to address the many issues facing our nation and the world. World History references the eras and time periods from The National Center for History in the Schools. **Required for graduation.**

Psychology - 474400 - SS, CF
Grade Level: 10, 11, 12 – ½ credit, 1 semester

Study of the important scientific principles of human behavior, with emphasis on their application to personal and social problems.

Sociology - 474500 - SS, CF
Grade Level: 10, 11, 12 - ½ credit, 1 semester

Sociology is a one-semester social studies elective which introduces students to the social systems that are the foundation of society. An emphasis will be placed on culture and socialization, social status, social institutions, and social problems; as well as the effects and influence on behavior. Using the tools and techniques of sociologists, students will study changes taking place in society and examine their causes, consequences, and possible solutions. Students will read major sociological theorists as well as consider how sociologists approach

AP World History - 571020 - SS
Grade Level: 10 - 1 credit - 2 semesters

AP World history is structured around the investigation of five course themes and 13 key concepts in four different chronological periods, from approximately 600 AD to the present. The key concepts support the investigation of historical developments within a chronological framework, while the course themes allow students to make crucial connections across the six historical periods and across geographical regions. The key concepts help teachers and their students understand, organize, and prioritize historical developments within each period. The course's organization around a limited number of key concepts allow students to spend more time learning essential concepts and developing the historical thinking skills necessary to explore the broad trends and global processes involved in the study of world history.

AP U.S. History - -570020 - SS
Grade Level: 11 and 12 - 1 credit - 2 semesters

AP United States History focuses on developing students' abilities to think conceptually about U.S. history from approximately 1491 to the present and apply historical thinking skills as they learn about the past. Seven themes of equal importance--identity; peopling; politics and power; work, exchange and technology; America in the world; environment and geography; and ideas, beliefs, and culture--provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among historical developments in different times and places.

Social Studies Department Staff

Bobby Bevel, HHS
Phillip Goodwin, HHS
Johnny Caststeel, HHS
Jeff Obert, CAB

MHHSCA Virtual Academy

Our mission is to provide Mountain Home High School Career Academy students with a progressive alternative to the traditional classroom. All courses are Common Core and state standard aligned. Students will work independently to access curriculum with a certified teacher present to assist. In the classroom, every student has a device and the teacher has pre-loaded the lesson for the day on the computer. When students come into class, they are choosing to work by themselves or with others. They are engaging the lesson at their pace, not the pace of the class. The teacher is now free to roam the room and teach individuals as opposed to classes. By design the MHHSCA Virtual Academy courses are a blended, face-to-face public high school curriculum. Our school offers a comprehensive, individualized, and rigorous approach to high school education through the use of technology. The MHHSCA Virtual Academy is available to high school students in the Mountain Home school district.

Method of Instruction

The method of instruction used at MHHSCA is blended/online independent study. Each student is assigned a content teacher for each online class. The content teacher grades the teacher-scored assignments, providing instructional support and meaningful feedback.All students have a Supervising Teacher, who provides the student orientation, distributes instructional materials, monitors student progress across all courses, collects student work samples, determines attendance credit, and serves as the student's main advisor and parent liaison. The parent(s), student and Supervising Teacher sign the independent study contract prior to each semester start date, which outlines the courses that will be taken and when the work is due.

VIRTUAL ARKANSAS ACADEMY (VARK) COURSE OFFERINGS- DL

AP English Language and Composition
AP English Literature and Composition
AP Environmental Science
AP Calculus AB
AP Computer Science Principles
AP Computer Science A
AP US History
AP World History
AP US Government and Politics (ADE Enhanced)

Computer Science with Programming/Coding Emphasis (Level 1)
Computer Science with Programming/Coding Emphasis (Level 2)
Computer Science with Information Security Emphasis (Level 1)
Computer Science with Information Security Emphasis (Level 2)

ACT Prep - English/Reading
ACT Prep - Math/Science
English 9
English 10
English 11
English 12
Oral Communication
Journalism
English 10 with embedded Oral CommunIcation

Visual Art 1
Visual Art Appreciation
ADE Approved Fine Arts + Process: Creating a Body of Work
ADE Approved Survey of Fine Arts - Art Appreciation and the American Identity
Spanish 1
Spanish 2
Spanish 3
French 1
French 2
German 1
German 2
American Sign Language 1
American Sign Language 2

Algebra 1
Geometry
Algebra 2
Advanced Topics of Modeling in Mathematics

Quantitative Literacy

Health and Wellness

Biology
Chemistry
Physics
Physical Science
Environmental Science
Anatomy & Physiology (science)

US History
World History
Civics
Economics
Psychology
Sociology
World Geography

Agricultural Business

Fundamentals of Photography
Intermediate Photography
Advanced Photography

Computerized Business Applications
Computerized Accounting 1
Computerized Accounting 2

Foundations of Sports Medicine
Pathology
Human Anatomy and Physiology (CTE)
Human Behavior and Disorders
Foundations of Health Care
Medical Terminology
Abnormal Psychology

Tourism Industry Management
Arkansas Hospitality and Tourism

Criminal Law
Intro to Criminal Justice
Forensic Science and the Law

Intro to Careers in Law, Public Safety and Security
Law and Order: Career Intent
Arkansas Legal

Fashion Merchandising
Marketing
Sports and Entertainment Marketing

Noble Impact 101

Fundamentals of Flight

College and Career Readiness
Career Readiness
Career Ready 101 Online

Extra Class Offerings

Dance
Grade Level: 10,11, 12 —2 semesters, **1 credit (may count as 1/2 of a PE credit)**

Students will be evaluated in the spring and will be selected by the dance coach to participate in this sport.

Content Mastery
Grade Level: 10, 11, 12 - 2 semesters, No credit

Learning Skills is primarily a special education class that gives guided help in a study hall situation. A special education teacher is available to the students at all times to answer questions and give tutoring. The class is limited to 8 students per class period.

Cheerleading
Grade Level: 10,11, 12 — 2 semesters, 1 credit (May count as 1/2 of a P.E. credit)

Students will be evaluated in the spring and will be selected by the cheer coach to participate in this sport.

Virtual Arkansas Courses
Grade Level: 10,11,12
The following courses will be offered online through Virtual Arkansas this year. For more information on these courses, please visit the course catalog on the Virtual Arkansas website at www.virtualarkansas.org.

- AP Calculus AB
- AP Computer Science A
- AP English Language and Composition
- AP English Literature and Composition
- AP United States History
- AP US Government & Politics
- AP World History
- Essentials of Computer Programming
- ACT Prep
- Museum Mash-Up: American Identity & the Arts
- English 9
- English 10
- English 10 with embedded Oral Communication
- English 11
- English 12
- Journalism
- Oral Communication
- Art 1
- Visual Arts Appreciation
- French 1 & 2
- German 1 & 2
- Spanish 1, 2 & 3
- Modeling in Mathematics
- Algebra 1
- Algebra 2
- Computer Science and Mathematics
- Geometry
- Health & Wellness
- Earth Science
- Anatomy/Physiology
- Biology
- Chemistry
- Environmental Science
- Physical Science
- Physics
- Civics
- Economics
- Psychology
- US History
- World History
- Abnormal Psychology
- Introduction to Medical Professions
- Human Anatomy & Physiology (CTE)
- Human Behavior Disorders
- Medical Procedures
- Medical Terminology
- Pathology
- International Travel
- Introduction to Hospitality
- Introduction to Travel & Tourism
- Travel Destinations
- Computerized Business Applications
- Programming 1 & 2
- Computerized Business Applications
- Web Page Design
- Criminal Law
- Introduction to Criminal Justice
- Forensic Science and the Law
- Intro to Careers in Law, Public Safety and Security
- Law and Order: Career Intent
- Arkansas Legal
- Fashion Merchandising
- Marketing
- Sports and Entertainment Marketing
- Career Ready 101 Online
- Career Readiness
- College and Career

Academy Career Connections

Agriculture—ACME &HHS Academies

Career Connections: *agricultural-related businesses, farming programs, government agencies, veterinarian studies*

Agricultural Scientists: animal scientist, soil conservation scientist, dairy scientist, forester, horticulturist, park naturalist, poultry scientist
Helpful high school courses: agri courses, biology, environmental science, zoology, English, math

Agricultural-related: business, machinery industry, mechanic, welder
Helpful high school courses: metals I & II; accounting, math, English

Farm & forestry: animal caretaker, conservation worker, farm management, farm worker, forestry, grounds keeping, horticulture, logger, nursery worker, poultry farmer
Helpful high school courses: any of the agriculture course offerings; business, math

Artistic—CAB Academy

Career Connections: *artists, entertainment industries, musicians, print making, art education, and lifetime leisure activities*

Communicators: photojournalists, news writers, photographer, playwright, public relations, radio/TV announcers
Helpful high school courses: English, publications, speech, theater arts, art, Computer Applications, Multimedia I & II, Desktop Publishing I & II

Performing artists: actor, choral director, choreographer, dancer, disc jockey, music arranger, composer, director, musician, producer, singer, and stage director
Helpful high school courses: band, choir, art, speech, English, Computer Applications, Multimedia, theater arts

Visual artists: artist, cartoonist, fashion designer, commercial artist, floral designer, graphic designer, illustrator, industrial designer, interior designer, landscape architect, set designer.
Helpful high school courses: art, ceramics, English, housing and interior design

Business—CAB Academy

Career Connections: *accounting, banking, clerical, government and private sector business management and administration, personal home financial affairs, communications*

Managers & administrators: accountant, buyer, construction manager, education administrator, financial manager, general business management, property manager, restaurant manager
Helpful high school courses: Accounting, English, Computer Applications, banking courses, any business courses

Marketing & sales: cashiers, retail clerk, real estate sales, sales, securities, travel agent
Helpful high school courses: Accounting, English, Geography, banking courses, world history

Administrative support: bank teller, bookkeeper, clerical, computer operator, office clerk, receptionist, legal secretary, secretary, teacher aide
Helpful high school courses: accounting, English, Computer Applications, math, banking classes, any business classes

Healthcare—HHS Academy

Career Connections: *medical physicians, nurses, therapists, pharmacists, health technicians*

Medical physicians: anesthesiologist, cardiologist, chiropractor, dermatologist, dentist, family practitioner, optometrist, orthopedist, pathologist, pediatrician, podiatrist, psychiatrist, radiologist, surgeon
Helpful high school courses: English, math, biology, AP biology, chemistry, AP chemistry, human anatomy & physiology; psychology, parenting, food science, zoology, medical profession education classes

Nurses, therapists, pharmacists: dietician, nutritionist, pharmacist, physician assistant, registered nurse, therapists: occupational, physical, recreational; audiologists, public health nurse, nursing home nurse
Helpful high school courses: English, math, biology, chemistry, human anatomy & physiology; food science, family consumer science, parenting, psychology; medical profession education classes, zoology, botany

Health technicians: clinical lab, dental hygienist, medical technicians, licensed practical nurse, medical records technician, optician
Helpful high school courses: English, math, biology, chemistry, human anatomy & physiology; zoology, botany, medical profession education classes, computer applications classes

Industrial—ACME Academy

Career connections: *computer programming, repair, systems analyst; jobs in industry, business and service industries*

Production workers: assembler, inspector, boilermaker, machinist, tool & die maker, bookbinder, photoengraver, upholster, woodworker, welder
Helpful high school courses: industrial arts, metals I, II; math, English

Transportation workers: bus driver, taxi driver, truck driver, able seaman, operating engineer
Helpful high school courses: drivers education, math, English, business courses

Mechanical—ACME Academy

Construction worker: bricklayer, carpenter, carpet installer, concrete mason, drywall installer, electrician, highway maintenance worker, painter, paperhanger, plasterer, plumber, pipe fitter, roofer, structural metal work
Helpful high school courses: furniture manufacturing I & II, Drafting & Design, Architecture/CADD I/II, metals I, II; English, math

Engineers & architects: architect, landscape architect, surveyor, engineering fields: aerospace, ceramic, chemical, civil, electrical, electronic, industrial, mechanical, metallurgical, mining, petroleum
Helpful high school courses: furniture manufacturing I & II, Drafting & Design, Architecture/CADD I/II, all CT Concept courses; English, math, physics, Project Lead the Way

Mechanics & repairers: air conditioning service, aircraft mechanic, automotive mechanic, automotive body service, diesel mechanic, maintenance; industrial machinery maintenance
Helpful high school courses: industrial arts, metals I, II, CT Concept courses, math, English, small engines, physics

Scientific—HHS & ACME Academies

Life scientists: agricultural scientist, aquatic biologist, biologist, biochemist, botanist, microbiologist, physiologist, zoologist, ecologist, medical scientist, food scientist, conservation scientist, park naturalist
Helpful high school courses: biology, AP biology, environmental science, AP environmental science, zoology, botany, chemistry, Algebra II, English, food science

Mathematicians & computer scientists: actuary, computer engineer, computer programmer, computer research analyst, computer systems analyst, system analyst, computer scientist, statistician, mathematician, operations research analyst
Helpful high school courses: chemistry, physics, trigonometry, calculus, AP calculus, all CT concept courses, English, statistics

Physical scientists: astronomer, chemist, climatologist, environmental analyst, geographer, geophysicist, hydrologist, meteorologist, mineralogist, oceanographer, paleontologist, physicist, seismologist, soils engineer, stratigrapher
Helpful high school courses: biology, environmental science, AP enviro science, chemistry, AP chemistry, physics, zoology, botany, advanced math, English

Service—HHS Academy

Career Connections: *cooperative extension services, early-childhood education, dietary and nutritionist careers, food service, home management, teaching*

Food service work: baker, bartender, butcher, cook: cafeteria, restaurant, fast food; chef, food preparation worker, waiter/waitress
Helpful high school courses: math, English, family consumer science, foods and nutrition, food science, health

Personal & health service work: barber, childcare, cosmetologist, flight attendant, janitor, home health aide, ambulance attendant/driver, dental assistant, medical assistant, nursing aide, orderly, psychiatric aide, occupational therapy aide, pharmacy assistant, physical therapy aide
Helpful high school courses: family consumer science, parenting, foods and nutrition, health, biology, chemistry, psychology, math, English, physical education, medical profession courses

Protective service work: correction officer, guard, deputy sheriff, detective, FBI agent, fire fighter, police officer, probation officer, private investigator
Helpful high school courses: health, math, English, physical education, psychology, statistics, geography, any computer courses

Social—HHS Academy

Educators: teachers: elementary, preschool, kindergarten, special education, secondary, college, vocational education, adult education; physical training instructor, librarian, counselor
Helpful high school courses: biology, zoology, English, math, history, psychology, Computer Applications, Multimedia I/II, desktop publishing, physical education, health, publications, accounting, family consumer science, parenting

Social & legal work: anthropologist, biographer, clergy, economist, geographer, historian, human services worker, lawyer, marketing research analyst, paralegal, psychologist, recreation worker, social worker, sociologist, urban & regional planner
Helpful high school courses: science, English, math, history, psychology, physical education, health, parenting, family consumer science, statistics

HHS
Career Path - Medical or Veterinary Doctor

POTENTIAL CAREERS

• Dermatologist	• Veterinarian
• Family Practitioner	• Medical Research
• Gynecologist	• Dentist
• Pharmacologist	• Ophthalmologist
• Psychologist	• Orthodontist
• Surgeon	

HIGH SCHOOL RELEVANT COURSES

• AP Biology	• Medical Procedures
• AP Chemistry	• Physics
• Human Anatomy and Physiology	• Zoology
• Medical Terminology	• Animal Science

EXTENDED LEARNING OPPORTUNITIES

• Senior Internship	• HOSA club
• FFA	

EXAMPLES OF POST SECONDARY DEGREES

• Bachelor of science: Chemistry	• Bachelor of Science: Biology

Career Plan – Example - PreMed (Smart Core with Honors)

Academy: **HHS** Career Pathway: **medical school**

Grade (required)	English (4 credits)	Math (4 credits)	Science (3 credits)	Social Studies (3 credits)	Career Specific	General Requirements
8		Algebra I				
9	English I	Geometry	Biology	Civics (.5)		PE (.5) Oral Comm (.5)
10	English II	Algebra II	Chemistry	World History	Med Term (.5) and Med Proc (.5)	Year 1 of Foreign Language Health (.5)
11	English III	PreCalculus	Physics and AP Enviro.	US History	Human Anatomy and Physiology	Year 2 of Foreign Language
12	English IV	Calculus	AP Chem	Economics (.5)	Medical Internship (.5)	
Totals	**4**	**5**	**5**	**3**	**3**	**3.5**

Note: in the example above, an additional 2.5 credits will be needed to satisfy graduation requirements for Smart Core.

Options after High School:

- Bachelor's degree - Plan on science related degree to prepare for medical school
- Advanced degree - MD or DVM

HHS
Career Path - Nursing

POTENTIAL CAREERS

• Registered Nurse	• Travel Registered Nurse
• Licensed Practical Nurse	• Operating Room Nurse
• Clinical Nurse Specialist	• Staff Nurse
• Nurse Practitioner	• Labor and Delivery Nurse
• Nurse Case Manager	• Surgical Nurse
• Intensive Care Nurse	• Nurse Supervisor

HIGH SCHOOL RELEVANT COURSES

• Medical Terminology	• Chemistry
• Medical Procedures	• Intro to Medical Professions
• Anatomy and Physiology	• Medical Clinical Specialization/Intern
• Biology	

EXTENDED LEARNING OPPORTUNITIES

• Senior Internship	• HOSA club

EXAMPLES OF POST SECONDARY DEGREES

• Associates degree: Nursing	• Nursing Certificate (CNA)
• Bachelor of science: Nursing	

Career Plan – Example - Nursing (Smart Core)

Academy: HHS **Career Pathway: Nursing**

Grade	English (4 credits)	Math (4 Credits)	Science (3 Credits)	Social Studies (3 Credits)	Career Specific	General Requirements
8						
9	English I	Algebra I	Physical Science	Civics (.5)		PE (.5) Oral Comm (.5)
10	English II	Geometry	Biology	World History	Intro to Med Professions (.5) and Medical Term (.5)	Year 1 of Foreign Language Health (.5)
11	English III	Algebra II	Chemistry	US History	Anat & Phys and Medical Procedures (.5)	Year 2 of Foreign Language
12	English IV	Pre-Calculus		Economics (.5)	Medical Internship (.5)	
Credits	4	4	3	3	3	3.5

Note: in the example above, an additional 5.5 credits will be needed to satisfy graduation requirements for Smart Core.

Options after High School:

- **Certification – CNA certification can be earned from ASUMH**
- **Associate's degree - Can be earned from ASUMH**
- **Bachelor's degree -**
- **Advanced degree- APN, NP, CRNA**

HHS
Career Path – Education and Training

POTENTIAL CAREERS

• Teacher - Elementary, Middle, Secondary	• Administrator
• Education Program Director	• Coach
• Academic Advisor	• School Counselor
• Special Education	• Paraprofessional
• Media Specialist	• College/University Faculty
• Child Care Worker	• Curriculum Specialist

HIGH SCHOOL RELEVANT COURSES

• Orientation to Teaching I	• Family and Consumer Sciences (FACS)
• Orientation to Teaching II	• Parenting
• Child Development	• Child Care Guidance, Management, & Services
• Psychology	

EXTENDED LEARNING OPPORTUNITIES

• FCCLA - Family, Career and Community Leaders of America	• Educators Rising

POSTSECONDARY OPPORTUNITIES: Certificate, Associates, Bachelors, Masters

• Elementary Education	• Middle Education
• Secondary Education	• Adult Education
• Special Education	• Counselor Education
• Business Education	• Early Childcare Education
• Family & Consumer Sciences Education	• Higher Education
• Community College Teaching	• Career & Technical Education

Career Plan - Example - Teacher (Smart Core Track)

Academy: HHS **Career Pathway: Elementary Teacher**

Grade	English (4 credits)	Math (4 credits)	Science (3 credits)	Social Studies (3 credits)	Career Specific	General Requirements
8						
9	**English I**	**Algebra I**	**Physical Science**	Civics (.5)	FACS	**PE (.5)** **Oral Comm (.5)**
10	**English II**	**Geometry**	Biology	World History	Child Development (.5) **&** **Psychology (.5)**	**Year 1 of Foreign Language** **&** **Health (.5)**
11	**English III**	Algebra II	Chemistry	**US History**	**Orientation to Teaching I**	**Year 2 of Foreign Language**
12	**English IV**	**Modeling in Math**		**Economics (.5)**	**Orientation to Teaching II**	
Total	4	4	3	3	4	3.5

Note: in the example above, an additional 4.5 credits will be needed to satisfy graduation requirements for Smart Core.

Options after High School:

- **Associates degree - Can be earned from ASUMH**
- **Bachelors degree - Can be earned from ASUMH**