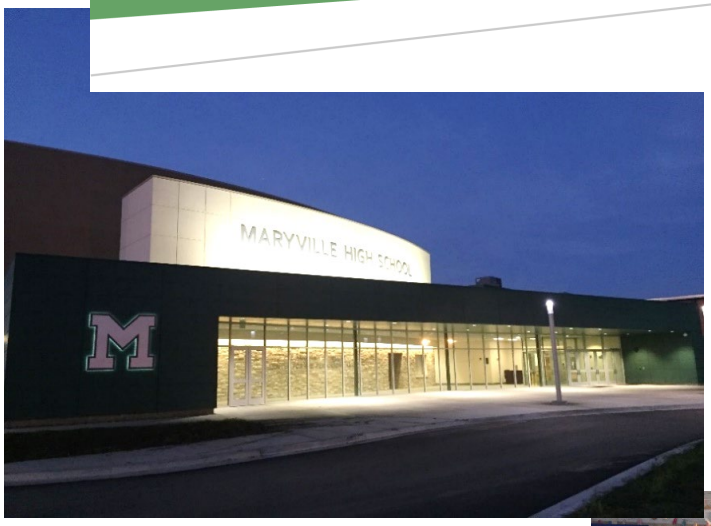
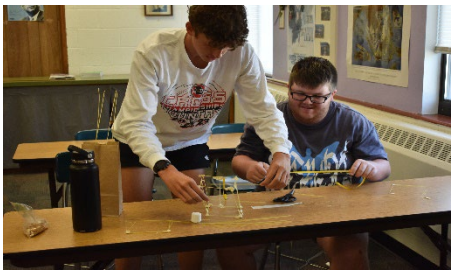


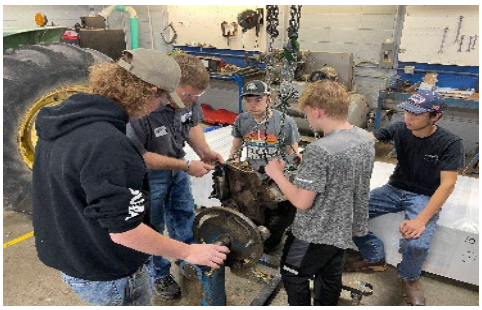
















MARYVILLE HIGH SCHOOL

MARYVILLE, MISSOURI

COURSE GUIDE

2026-2027

Welcome to Maryville High School

The decisions and choices you make as a student at Maryville High School will have a profound and long-lasting effect on your future. You are encouraged to make your own decisions and to be responsible for the outcome of your decisions.

All students should develop a personal plan of study (four-year plan) according to their individual interests, abilities, and goals. Each spring the students will study and adjust their personal plan, using input from parents/guardians, teachers, counselors, and other resources. Students should utilize career information in the Counseling Center, Library, and Missouri Connections to aid in developing their personal plan. Information on careers, scholarships, technical schools, college entrance requirements, and other related data is available from the counselors, the A+ Coordinator, in the Library, or online.

Parent/Guardian involvement is critical to the success of the student's personal plan of study. It is the responsibility of each student to read carefully all the registration materials and requirements for graduation, and to be willing to live with the choices made for the year. Parents/Guardians should be aware of the requirements and recommendations for their student's chosen pathway. Also, parents/guardians should support the student and school by providing a proper study atmosphere at home and by maintaining good communications with school officials and teachers.

We challenge you to set high standards for yourself, select courses and organizations which will advance you toward those goals, attend classes daily, and work hard to achieve your goals.

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COUNSELING CENTER MESSAGE

To Parents and Students:

The program of studies at the Maryville High School (MHS) is designed to expand the general educational experiences of all students and to prepare students for the workplace and/or further education or training after graduation. Your high school program should be planned with your post-secondary objectives in mind. It is strongly recommended that specific graduation requirements be met before your senior year. Requirements for MHS graduation and the admission standards for area colleges are provided.

We encourage parents to check transcripts during the high school years and know your student's progress towards graduation. You may also monitor your student's progress through Schoology. The graduation requirements to receive a diploma from Maryville High School are currently twenty-four and one-half (24 ½) credits. The total credits must be checked each time that a class is failed. Failing credits may require a student to take summer school or make up failures during the regular school year, but the reward of graduation with peers would be worth it. We want to make the high school experience a positive one for all students and look forward to working with you.

Becky Houtchens	**Madi Tritten**	**Lori Snead**
Post-Secondary Advisor	**Counselor (A-L)**	**Counselor (M-Z)**

MSHSAA ELIGIBILITY

The Missouri State High School Activities Association (MSHSAA) requires students to pass 3 credits each semester to be eligible for competitive school activities the following semester. Competitive school activities would include all MSHSAA sanctioned activities that the school offers. For additional information, please consult the MSHSAA Handbook.

A+ SCHOLARSHIP PROGRAM

The A+ Scholarship Program provides scholarship funds to eligible graduates of A+ designated high schools who attend a participating public community college or vocational/technical school, or certain private two-year vocational/technical schools.

The financial incentives will be offered to students who stay in school, maintain at least a 95 percent attendance record and a 2.5 grade point average, exhibit good citizenship, avoid the unlawful use of drugs and perform a combination of 50 hours of unpaid tutoring and mentoring. Students must also meet one of the following math assessment scores: Score advance or proficient on the Algebra 1 EOC or have an ACT Math score of 17 with a High School GPA of 2.5 or greater, ACT Math score of 16 with a GPA 2.8 or greater, or ACT Math score of 15 with a GPA of 3.0 or greater.

For more information about the A+ Scholarship Program, please visit
https://dhewd.mo.gov/ppc/grants/aplusscholarship.php

MARYVILLE HIGH SCHOOL

RECOMMENDED COLLEGE PREP

English 1.0 credit Honors English II 1.0 credit Honors English III 0.5 credit Speech I 1.0 credit Composition & British Literature 1.0 AP English Literature & Composition **Math** 1.0 credit Algebra I 1.0 credit Geometry 1.0 credit Honors Algebra II 1.0 credit Pre-Calculus/ 0.5 credit College Algebra 1.0 credit AP Calculus	**Social Studies** 1.0 credit American History 1.0 credit Honors American Government 1.0 credit AP Psychology 1.0 credit U.S. Since 1877 **Science** 1.0 credit Biology 1.0 credit Physical Science 1.0 credit Chemistry OR 1.0 credit Physics OR 1.0 credit Human Biology OR 1.0 credit College Biology **Foreign Language** 2.0 credits of the same foreign language (Spanish I & II)

EMBEDDED CREDIT

MHS offers embedded credit for students enrolled in certain Northwest Technical School courses. Embedded credit is defined as earning graduation credit for a core content class while being enrolled in a class typically defined as an elective or career training/exploratory class.

Science Embedded Credit: Students may earn one embedded credit of science by completing three credits of qualifying Agricultural Science courses. See your counselor for qualifying course details. This embedded credit is noted on the transcript as "Emb. Science-AG" and receives a pass/fail grade. (Ag I & II, Ag Structures 1.0, Animal Science 1.0, AG Power 0.5, Greenhouse 1.0, Landscaping 1.0, Conservation 0.5)

Science Embedded Credit: Students completing Health Science Technology I will receive one embedded Science credit. This embedded credit is noted on the transcript as "Emb. Science-Health Science".

Science Embedded Credit: Students may earn ½ embedded Science credit for completion of Automotive Tech I and may earn ½ embedded Science credit for completion of Automotive Tech II. This embedded credit is noted on the transcript as "Emb. Science-Auto".

Math Embedded Credit: Students may earn ½ embedded credit annually for completion of one of the following courses Welding & Machine Shop Tech I, Welding & Machine Shop Tech II, Automotive Tech I, Automotive Tech II, Building Trades I, Building Trades II, Collision Repair I, or Collision Repair II. This embedded credit is noted on transcripts as "Emb. Credit-Math".

Personal Finance Embedded Credit: Students may earn ½ credit of Personal Finance by completing three credits of qualifying Agricultural Science courses and pass a state Personal Finance exam. See your counselor for qualifying course details. This embedded credit is noted on the transcript as "Emb. Pers. Finance" and receives a pass/fail grade

RETAKING A CLASS

The only classes a student may repeat for credit are Athletic Performance, Band, Drama, any Choir class, Technical Theatre, Mass Media, and Peer-Coaching.

A student may retake a class in order to get credit if they failed the first attempt. The class may also be retaken in order for the student to gain a better understanding of those concepts that are necessary to continue in the curricular area.

The following stipulations will be followed for retaking a class:

1. Students must have permission from the content area teacher, parent, counselor and an administrator.

2. Only one credit can be given for a full year class. Double credit is not given if the student passes the class more than once.

3. If the student earned a failing grade, the first time, that grade will not be superseded but will continue to be figured into the cumulative GPA.

GRADING SCALE

	A =4.00 95-100%	**A-** =3.67 90-94%
B+=3.33 87-89%	**B** =3.00 83-86%	**B-** =2.67 80-82%
C+=2.33 77-79%	**C** =2.00 73-76%	**C-** =1.67 70-72%
D+=1.33 67-69%	**D** =1.00 63-66%	**D-** =0.67 60-62%
F = below 60%	**IC**= Incomplete	**P** =Passing

WEIGHTED GRADES-MHS adds .33 weighting to the following (honors) courses. Any online dual credit course from an accredited United States college or university will be weighted.

Communication Arts	**Foreign Languages**	**Math**	**Science**	**Social Studies**	**Practical Arts**
Honors English III	Spanish III	Honors Algebra II	Chemistry	U.S. since 1877	Business Technology
Composition & British Literature	Spanish IV	Pre-Calculus	Physics	Honors American Government	Animal Science
AP English Lit		AP Calculus	Human Biology	AP Psychology	**Fine Arts**
		College Algebra	College Biology		American Pop Music
			Medical Interventions		
			Civil Engineering & Architecture		
			Engineering Design & Development		

GRADUATION REQUIREMENTS

The Maryville R-II Board of Education has adopted the following regulations and procedures to implement the Missouri Department of Elementary and Secondary Education's provisions for high school graduation. Any student graduating from Maryville R-II High School must complete a minimum of 24.5 units of credit in grades nine through twelve in a program planned cooperatively by the student, the student's parent/guardian, and the school. The program shall be designed to meet the individual needs of the student. NOTE: A credit is the equivalent of a class meeting one 50-minute period daily for 169 days.

Courses	MHS Graduation Requirements & Entry Requirements for: Military, Technical Schools, Community Colleges	Direct to Employment after high school	NWMSU Entry Requirements	MU Entry Requirements	NCAA Eligibility Requirements (submit appl.) Division I II
Communication Arts	4 Including 0.5 Speech I	4 Including 0.5 Speech I	4	4	4 3
Mathematics	3	3	3	4	3 2
Science	3	3	3	3	2 2
Social Studies	3 Including 1 Government & 1 American History	3 Including 1 government & 1 American History	3	3	2 2
Personal Finance	0.5	0.5	0.5	0.5	
Fine Arts	1	1	1	1	
Practical Arts	1	1	1	1	
Health/Physical Education	1.5 Including 0.5 Health	1.5 Including 0.5 Health	1.5	1.5	
Electives	7.5	7.5			5 7 See NCAA guidelines
Foreign Language			2 Credits in same foreign language strongly recommended	2 Credits in same foreign language	
ACT Score			21 or combined ACT/class rank percentile must equal 100 or more	Combined with class rank for percentile	Sliding scale

DUAL CREDIT

A student interested in Dual Enrollment may earn college credit from Northwest Missouri State University while still in high school. To be eligible for dual credit, a student must have an ACT score of 21, or PreACT of 21 and a cumulative GPA of 2.5 (or 3.0 for sophomores).

Additionally, there are ACT subscore requirements of specific dual credit courses as listed here:

- Composition & British Literature: ACT English subscore of 18
- Pre-Calculus: ACT Math subscore of 24 (or 3.5 GPA)
- College Algebra: ACT Math subscore of 22 (or 3.0 GPA)
- AP Calculus: ACT Math subscore of 27 or completion of Dual Credit Pre-Calculus

If minimum subscores are not met, students may qualify using an alternate method. See you school counselor for details.

All course offerings are entry level and taught by MHS faculty with advanced degrees, who have been approved by the university. Course content is comparable to the on-campus course and has been developed in cooperation with university professors who are liaisons for the program.

Students interested in transferring any of the dual-credit courses through NWMSU to another university will need to contact the university they plan to attend to find out if and how the NWMSU credits would be received. It is important to ask for the transfer specialist and then report the NWMSU department and course numbers. This information can also often be found on most university websites.

MHS Course Title	NWMSU Course Title and Course Number	Credit Hours	MHS Course Title	NWMSU Course Title and Course Number	Credit Hours
Composition & British Lit	Comp I (10-111)	3	Chemistry	Gen Chem I/Lab (24-114/115)	4
Pre-Calc	Pre-Calculus (17-117)	5	Physics	Gen Physics I/Lab (25-110/111)	4
College Algebra	Pre-Calculus Algebra (17-118)	3	College Biology	Gen Biology/Lab (04-102/103)	4
AP Calculus	Calculus I (17-120)	4	Human Biology	Medical Terminology (04-104)	3
U.S. since 1877	The U.S. 1877-Present (33-156)	3	Health Science Technology	Medical Terminology (04-104)	3
American Pop Music	American Pop Music (19-222)	3	Animal Science	Missouri State AGS 101	3
			Teaching Professions	Various courses offered	varies
			Business Technology	Comp & Info Tech	3

ADVANCED PLACEMENT (AP): AP CALCULUS, AP ENG LIT & COMP. AND AP PSYCHOLOGY

Students enrolled in an AP course have the option to take the AP exam that is administered worldwide in May. The students are not required to take the exam to enroll in the course. The test is graded on a scale of 1-5 with 5 being the highest score. Based on this score, students can receive advanced standing and/or college credit at universities worldwide. The required score varies from school to school and can be found by contacting individual universities. The cost of the exam was $99 for 2024-2025. The curriculum taught is developed using the collaborative efforts of university and secondary-school faculty to align with college-level curriculum and expectations. The Advanced Placement program is run by The College Board, the same company that administers the SAT.

Cum Laude Levels

Summa Cum Laude-Students with a weighted GPA of 4.02 and above will be recognized and receive Honor Cords.
Magna Cum Laude-Student with weighted GPA of 3.90 to 4.019 will be recognized in the graduation program.
Cum Laude-Students with a weighted GPA of 3.75 to 3.89 will be recognized in the graduation program.

SPOOFHOUND ONLINE ACADEMY

The online Academy is a non-traditional educational path offered to students who attend Maryville High School or who attend a Northwest Technical School (NTS) sending school. The Online Academy is a flexible program that will help meet the individual educational needs of students. Admission to the Spoofhound Online Academy shall be approved by counselors and administration.

Online Academy Objectives

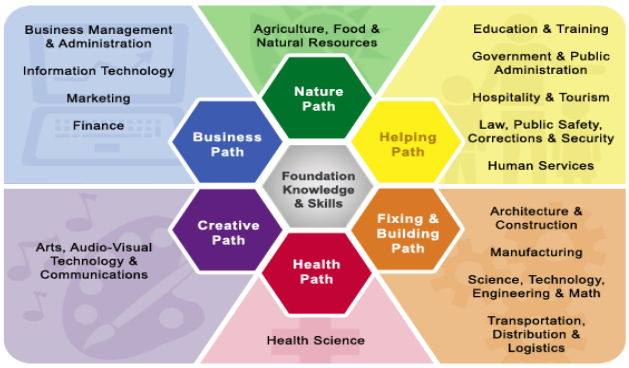
1. Provide educational opportunities and a path to graduation for students who for a variety of reasons are unable to follow the traditional education environment.
2. Provide students on the traditional path to graduation with an opportunity to remediate coursework that they have previously failed.
3. Provide student with educational opportunities to enrich their traditional high school program.

Online Academy Expectations

Objective 1 – Students may be placed in the Online Academy for short term or long term as a consequence for behavior. Students will develop an individual education plan that provides a clear path towards graduation. This plan could include: full time online classes, part-time online classes, and/or NTS classes. Students who attend the Online Academy under Objective 1 for a short time, semester or less will be expected to take online classes that follow their traditional schedule. Online courses must be completed in a timely manner.

Objective 2-Students may take as many credit recovery classes as needed to put them back on track towards graduation. Coursework needed is determined through advisement with home district counselor. Students will be expected to finish the coursework in a timely manner.

Objective 3-Students may earn credit by successfully completing correspondence or online courses from accredited institutions or the MHS online curriculum. Unless for credit recovery, the maximum number of credits which can be counted towards graduation requirements is two credits. Students may enroll in other courses outside the school day. All enrollment and costs related to the correspondence or online course is the responsibility of the student. If a student wants to count correspondence or online credits toward graduation requirements, the student must enroll in the Online Academy and receive permission from the counselors/administration.



Missouri Connections Career Pathways

Missouri Connections helps students open the door to career exploration and educational planning. Sponsored by the Department of Elementary and Secondary Education, Missouri students in public and private schools (grades 7 through college), their parents, school counselors, and educators can use the online system at no charge.

MHS and the school counselors strongly recommend the use of these Individual Login Instructions. Students will create a personal account at school if they haven't already done so, following these instructions. Counselors and other qualified staff will have administrative access to help students manage their accounts and monitor completion of specific assignments.

1. Go to www.missouriconnections.org
2. Returning users may enter their login information.
3. New users must contact the guidance office in order to register and be linked to the MHS system.
   Username: Same as your google username (first 4 letters of your last name plus first 3 letters of your first name.
   Example: smitsal
   Password: chosen by each student. See your counselor if you need it reset.
4. Explore the home page or click on "Go to My Portfolio" to view your account records.

Parents: You will not need to log in. Take a virtual tour of the system, learn how careers are presented to students, see a career planning timeline, and get suggestions on how to help your child with career planning. You can also view your child's portfolio, if they have provided you with their username and password.

The Maryville R-II School District is developing programs to assist all students in choosing and preparing for rewarding careers. A general high school program of studies is simply not enough preparation for today's colleges or for employment in today's complex workplace. Rather, the program of studies must be carefully planned and selected to help ensure that students may attain their goals.

The A+ Schools program has initiated a program of Career Paths, coinciding with Missouri Connections Career Paths and Career Clusters, to give FOCUS and DIRECTION to the selection of a high school course of study and to best assist the student in achieving whatever goal has been chosen. All high school students will be asked to select a career path, which include:

- Industrial & Engineering Technology: Building & Fixing Path
- Human Services: Helping Path
- Natural Resources & Agriculture: Nature Path
- Business, Management & Technology: Business Path
- Arts & Communication: Creative Path
- Health Services: Health Path

As a part of the A+ Schools program, each student, working with parents and the high school counselor, will develop a course of study centered on one of the six broad career pathways. The course of study may reflect a general area of interest such as health services, or it may concentrate on a specific occupational goal such as becoming a respiratory therapist or a registered nurse. The following activities enable students to achieve a designated career path:

- Maryville students have been involved in activities designed to expand awareness of a variety of careers, including local and regional career fairs and college fairs, in addition to in class career exploration.
- By the ninth grade, a student will be able to choose a career path by considering personal interests, personalities and strengths. Then the student can develop a four-year plan by selecting courses which are relevant to the variety of occupations in the chosen career path.

If students change their minds…

A career path choice is not a permanent commitment. As students mature and have new experiences, they will learn new things about themselves and may want to change career paths. If a student decides on a new career path, it should be discussed with the counselor, so the student's four-year plan may be adjusted according to the new career direction.

Communication Arts	Credit	Grade Level
English I	1	9
English II	1	10
Honors English II	1	10
English III	1	11
Honors English III (W)	1	11
Composition & British Lit.(W)(D)	1	12
AP English Lit & Composition(W) (D)	1	12
Speech I	0.5	11-12
Speech & Debate	1.0	9-12
Novels	0.5	10-12
Mythology	0.5	9-12
Creative Writing	0.5	9-12
Mass Media (Practical Art)	1	10-12

Social Studies	Credit	Grade Level
Introduction to Geography	1	9
American History	1	9
World History	1	10-12
American Government	1	11
Honors Amer. Government (W)	1	11
AP Psychology (W)	1	11-12
The U.S. since 1877 (W) (D)	1	11-12
Germany & The Holocaust	0.5	9-12
American West	0.5	9-12

Foreign Language	Credit	Grade Level
Spanish I	1	9-12
Spanish II	1	10-12
Spanish III (W)	1	11-12
Spanish IV (W)	1	12

(W) = Weighted added .33 to GPA

(D) = Dual Credit class –

NWMSU credit and MHS credit

Mathematics	Credit	Grade Level
Algebra IA	1	9
Algebra IB	1	10
Algebra I	1	9-12
Geometry	1	9-12
Algebra II	1	10-12
Honors Algebra II (W)	1	10-12
Finite Mathematics-Fall only	0.5	11-12
Statistics-Spring only	0.5	11-12
College Algebra (W) (D)-Fall Only	0.5	11-12
Pre-Calculus (W) (D)	1	11-12
AP Calculus (W) (D)	1	12

Science	Credit	Grade Level
Earth Science	1	9
Biology	1	9
Physical Science	1	10
Material Science	1	11-12
Chemistry (W) (D)	1	10-12
Physics (W) (D)	1	11-12
College Biology (W) (D)	1	11-12
Human Biology (W) (D)	1	11-12
Princ. Of Bio Med Science – (Practical Art Credit)	1	9-12
Medical Interventions (W)	1	10-12
Intro to Engineering Design – (Practical Art Credit)	1	9-12
Princ. Of Engineering	1	10-12
Civil Engineering & Architecture (W)	1	12
Engineering Design/Development (EDD) (W)	1	12

Connect -Elective Credit unless noted	Credit	Grade Level
Connect-General	0.125	9-12
Connect-Academic	0.125	10-12
Connect-Athletics	0.125	10-12
Connect-Performance	0.125	10-12
Connect-Library	0.125	10-12
Connect-Ag	0.125	10-12
Connect-A+ Mentor	0.125	11-12
Connect-College 101	0.125	12

Fine Arts	Credit	Grade Level
Art I	1	9-12
Drawing I/II (Fall Only)	0.5	10-12
Painting I/II (Fall Only)	0.5	10-12
Sculpture I/II (Spring Only)	0.5	10-12
Mixed Media (Spring Only)	0.5	10-12
Advanced Art	0.5-1	11-12
Mixed Choir	1	9-12
Illumination	1	9-12
Spectrum	1	9-12
Drama	1	9-12
Band	1	9-12
American Popular Music (D) (W)	1	11-12
Technical Theatre (Practical Art Credit)	1	10-12

Physical Education	Credit	Grade Level
Health (Health Credit)	0.5	9
Lifetime Activities	1	9-12
Team Sports	1	10-12
General Fitness	1	9-12
Athletic Performance	1	9-12

General Elective Courses	Credit	Grade Level
Office/Library/Teacher Asst.	0.5-1	12
Peer Coaching, application required	1	10-12

Practical Arts: Family and Consumer Sciences	Credit	Grade Level
Child Development	0.5	9-12
Family Living & Parenthood	0.5	9-12
Textiles & Apparel	0.5	9-12
Housing & Interior Design	0.5	9-12
Nutrition & Wellness	0.5	9-12
Culinary Art-PROSTART	2	11-12
Hospitality & Tourism (HTMP I)	1	11-12
Food Coop	2	12

Practical Arts: Teaching Professions	Credit	Grade Level
Teaching Professions	3	11-12

(W) = Weighted adds .33 to GPA (D) = Dual Credit

Practical Arts: Business	Credit	Grade Level
Computer Applications	0.5	9-12
Sports Entertainment Multimedia	.5	10-12
MultiMedia	0.5	9-12
Banking & Financial Services	0.5	10-12
Business Management I	0.5	10-12
Business Management II	0.5	10-12
Web Design	1	10-12
Business Technology (D) (W)	1	11-12
Network Administration	1	11-12
Personal Finance (PF Credit)	0.5	11
Accounting I	1	10-12
Accounting II	1	11-12
Business Coop	1 or 2	12

Practical Arts: Industrial Technology	Credit	Grade Level
Collision Repair	3	11-12
Automotive Technology	3	11-12
Building Trades	3	11-12
Welding & Machine Shop Tech.	3	11-12

Practical Arts: Health Science Technology	Credit	Grade Level
Health Science Technology I	3	11-12

Practical Arts: Agricultural	Credit	Grade Level
Agricultural Science I	1	9-10
Agricultural Science II	1	10-12
Agricultural Structures	1	11-12
Animal Science (D) (W)	1	11-12
Agricultural Power	0.5	11-12
*Greenhouse Operation & Mgmt	1	11-12
*Landscaping & Turf Mgmt	1	11-12
Agricultural Communications	0.5	11-12
Agricultural Sales & Marketing	0.5	11-12
Conservation	0.5	12-12
Ag Coop	1-2	12
*** Offered every other year**		

COMMUNICATION ARTS



English Sequence Recommendations

The MHS English department strongly recommends that students complete one of the following sequences of courses.
4 English credits Required in Missouri for graduation

	MHS Diploma	College Prep	Honors College Prep
	These courses will earn you an MHS diploma and prepare you for the workforce, military, trade school, etc.	These courses will allow you to be admitted to community colleges and some four-year colleges and universities. Please investigate the admission requirements at the college of your choice.	These courses will best prepare you to be admitted and be successful at 4-year colleges. Please investigate the admission requirements at the college of your choice.
Freshman	English I	English I	English I
Sophomore	English II	English II or Honors English II	Honors English II
Junior	English III and Speech I	English III or Honors English III* and Speech I	Honors English III* and Speech I
Senior	Novels or Mythology or Creative Writing	Novels or Mythology or Creative Writing or Comp & British Lit *	AP Lit * or Comp & British Lit *
			*weighted courses

ENGLISH I (1 credit, Gr. 9) This course is designed to re-introduce students to the fundamentals of writing and reading. This year long course (two semesters) prepares the student to apply good writing processes through various activities. Students will read novels, short stories, nonfiction literature, poetry, a Shakespearean play, and view films that correlate to works read as part of the class curriculum. Students can expect a wide variety of classroom activities including workshop sessions, lectures, readings, class discussions, small group discussions, library research, and basic grammar activities.
Homework: Approximately 1-2 hours weekly. **Prerequisite:** None

ENGLISH II (1 credit, Gr. 10) English II provides the opportunity for the continued study of language and literature. Students should learn to detect the structure of a short story, novel, and drama; to organize a composition; to be aware of the mechanics and elements of grammar; to apply reading, writing, listening, speaking and critical thinking skills to work place situations; to recognize more complicated literary devices; and to write essays and document research using MLA (Modern Language Association) style. **Homework:** Approximately 2-3 hours weekly. **Prerequisite:** English I.

HONORS ENGLISH II (1 credit, Gr. 10) Honors English II students will work with stylistic analysis as it relates to higher level thinking and writing and to critical reading skills. Extensive reading, writing, and response strategies will be emphasized. Students will organize compositions, write a research paper using MLA style, and focus on recognition and implementation of complicated literary devices. **Homework:** Approximately 3-5 hours weekly.
Prerequisite:

- At least a B- semester grade (both semesters English I)
- Final Spring STAR assessment from 9th grade year needs to be at least 8th grade level
- English I teacher approval-Teacher MAY approve if 1 of these 2 criteria are met and IF the teacher believes there were extenuating circumstances that prevented the student from achieving all of the criteria.

ENGLISH III (1 credit, Gr. 11) English III will concentrate on improving both writing and reading skills. Writing will focus on developing test taking skills, creative writing, constructing a multi-genre genealogy project and technical writing highlighting letter styles. Reading will be developed through American Literature selections from the various genres of fiction, non-fiction, poetry, and drama and through the lens of social justice. **Homework:** Approximately 1-2 hours weekly. **Prerequisite:** English II or Honors English II.

HONORS ENGLISH III (1 credit, Gr. 11) Honors English III will concentrate on mastery of argument, reading comprehension, and critical thinking. This is an accelerated English class in which American literature – including fiction, non-fiction, poetry, and drama – will be analyzed and discussed through the lens of social justice. A variety of writing genres will also be composed to demonstrate a thorough grasp of significant ideas in selected literary works. **This is a weighted course. Homework:** Approximately 2-5 hours weekly.
Prerequisite:

- At least a B- semester grade (both semesters English II or Honors English II)
- C- or better on Honors English II research paper (Students taking English II will need to submit a research paper to the English II teacher to prove they have the requisite skills)
- Proficient or Advanced score on English II EOC
- Final Spring STAR assessment from 10th grade year needs to be at least 9th grade level
- English II teacher approval-Teacher MAY approve if 3 of these 4 criteria are met and IF the teacher believes there were extenuating circumstances that prevented the student from achieving all of the criteria.

COMPOSITION & BRITISH LITERATURE (1 credit, Gr. 12) Composition & British Literature is an honors, accelerated literature and writing course offered for dual credit (Maryville High School and Northwest Missouri State University). With proper enrollment and payment of fees, 3 hours of credit from Northwest Missouri State University may be obtained. (The Northwest grade will be calculated using only the composition scores, not the literature scores). This course will focus on college level reading and writing, including British literature, grammar reviews, numerous research papers using MLA style, college enrollment and scholarship writing, literary analysis, and numerous other composition assignments. **This is a weighted course. Homework:** Approximately 3-5 hours weekly.
Prerequisite:

- Honors English II AND Honors English III
- At least a B- semester grade (both semesters English III or Honors English III)
- C- or better on Honors English III research paper (Students taking English III will need to submit a research paper to the English III teacher to prove they have the requisite skills)
- Final Spring STAR assessment from 11th grade year needs to be at least 10th grade level

AP ENGLISH LIT & COMPOSITION (1 credit, Gr. 12) AP English Lit & Composition will present a general introduction to literature organized around central themes in our global society. Selected themes will vary, but each section will include 1) literature from various genres; 2) literature from three centuries; 3) reading from at least three distinct cultural categories. **This is a weighted course. Homework:** Approximately 2-5 hours weekly.
Prerequisite:

- Honor English II AND Honors English III
- Summer reading may be required. The approved reading list is available from the AP Lit teacher.
- At least a B- semester grade (both semesters English III or Honors English III)
- C- or better on Honors English III research paper (Students taking English III will need to submit a research paper to the English III teacher to prove they have the requisite skills)
- Final Spring STAR assessment from 11th grade year needs to be at least 10th grade level

SPEECH I (0.5 credit, Gr.11) This course introduces the student to the study of informal and formal oral communication. The course is performance oriented with the student preparing and delivering formal speeches, as well as participating in informal communication. Speech I is designed to help improve the student's daily communication skills with emphasis on listening and effective speaking. Grading is based on quizzes, exams, class participation, class performance, and daily work. **Homework:** Approximately 1-2 hours weekly.
Prerequisite: Must be a junior. Taking an online speech class does not satisfy this requirement.

NOVELS (0.5 credit, Gr. 10-12 or teacher recommendation) Novels will concentrate on improving both writing and reading skills. Writing will focus on developing test taking skills, literary analysis skills and creative writing**.** Reading will be developed through the study of several novels. Students will compare/contrast the novel with its movie adaptation. **Homework:** Approximately 1-2 hours weekly.
Prerequisite: English I & II or teacher recommendation. It is not recommended that students who fail the class retake it; students who do so may be required to complete alternate assignments.

MYTHOLOGY (0.5 credit, Gr. 9-12 **Caution:** We read the original myths by Ovid, Homer, and Virgil, not modern retellings such as Percy Jackson; students need to have proficient reading skills to take this class.) Mythology will concentrate on improving the student's higher academic reading skills as well as an understanding of the fundamental stories of world cultures. By better understanding mythology, the student will better understand the culture and the literature developed in that culture. **Homework:** Approximately 1-2 hours weekly.
Prerequisite: English I & II or teacher recommendation. It is not recommended that students who fail the class retake it; students who do so may be required to complete alternate assignments.

CREATIVE WRITING (0.5 credit, Gr. 9-12) Creative Writing will concentrate on developing the student's skills in composing short stories and poetry. Readings will be used as models of good literature to illustrate the proper application of literary techniques. **Homework:** Approximately 1-2 hours weekly.

MASS MEDIA (1 credit, Gr. 10-12, **Practical Art Credit**) Mass Media includes learning about the facets of yearbook production - copy writing, ad sales, yearbook sales, photography, layout, and fund raising. This class requires some after school and weekend hours. Students must be willing to participate in all yearbook activities and demonstrate organization and cooperation skills. This course may be taken more than once. **Homework:** Weekend and after school hours.

SPEECH & DEBATE (1 credit, Gr. 9-12) This course will focus on preparing students to engage in several forms of public speaking – forensics, debate, and student congress. Speech and Debate is designed to give students experience in performing in a variety of speaking forms, such as oratory, extemporaneous speaking, oral interpretation of poetry and prose, dramatic interpretation, humorous interpretation, duet acting, duo interpretation, storytelling, and radio speaking events. By discussing both sides of current events and controversial subjects, students will develop tolerance and will learn trends in Policy Debate, Lincoln-Douglas Debate, and Public Forum Debate. Student Congress is designed to allow students to use debate skills to write, research, analyze, and participate in legislative sessions where bills and resolutions are discussed. Designed to help students prepare for competition, students will be asked to participate, time or observe while attending at least one competitive speech contest per quarter. Speech & Debate may be taken yearly and may fulfill one English credit needed by all high school students for graduation. **Homework:** 2-3 hours per week. **Prerequisite:** Good memory skills and a willingness to participate in class and at competitive Speech and Debate tournaments are strongly recommended.



SPANISH I (1 credit, Gr. 9-12) Students will be introduced to the language and culture of the Spanish-speaking world. Students will begin attaining proficiency in listening, speaking, reading, and writing Spanish with an emphasis on the present tense and sentence structure. Students will acquire a command of essential vocabulary. **Homework: 1**-2 hours weekly **Prerequisite:** Good memory skills and a "B" average in English is recommended.

SPANISH II (1 credit, Gr. 10-12) Students will expand the study of the Spanish language into learning more complex structures of grammar, including verb tenses beyond the present. They will increase their proficiency in listening, speaking, reading, and writing as they expand their vocabulary and continue exploring the culture of the Spanish-speaking world. **Homework: 1**-2 hours weekly **Prerequisite:** "B" average in Spanish I is recommended.

SPANISH III (1 credit, Gr. 11-12) Students will expand the study of the Spanish language into learning more complex structures of grammar, including future and conditional verb tenses and more complex use of verbs in the past tense. They will increase their proficiency in listening, speaking, reading, and writing as they expand their vocabulary and learning more about the Spanish-speaking world. **Spanish III is a weighted class. Homework: 1**-2 hours weekly P**rerequisite:** "B" average in Spanish II is recommended.

SPANISH IV (1 credit, Gr.12) Students will expand vocabulary and increase proficiency in listening, speaking, reading and writing skills as they learn additional verb tenses and grammar skills, including the subjunctive and imperative moods. Focus in the course is on using the language in conversation, reading and writing. Students will read short stories and increase cultural awareness of the Spanish-speaking world. **Spanish IV is a weighted class. Homework: 1**-2 hours weekly **Prerequisite:** "B" average in Spanish III is recommended.

Math

Math Sequence Recommendations

The MHS Math department strongly recommends that students complete one of the following sequences of courses.

3 Math credits required in Missouri for graduation

	MHS Diploma	College Prep	Honors College Prep
	These courses will earn you an MHS diploma and prepare you for the workforce, military, trade school, etc.	These courses will allow you to be admitted to community colleges and some four-year colleges and universities. Please investigate the admission requirements at the college of your choice.	These courses will best prepare you to be admitted and be successful at 4-year colleges. Please investigate the admission requirements at the college of your choice.
Freshman	Algebra IA or Algebra I	Algebra I	Geometry
Sophomore	Algebra IB or Algebra I or Geometry	Geometry	Honors Algebra II *
Junior	Geometry or Algebra II or Embedded Math Credit	Algebra II or Honors Algebra II *	Pre-Calc */ College Algebra* Online College Stats *
Senior	Embedded Math credit (if needed)	Optional: Finite/Statistics (Finite has Algebra 2 as a prerequisite)	AP Calculus *
		College Algebra* (Either Algebra 2 course as prerequisite)	*weighted courses

Math Department Recommendations for Calculator – based on course

Scientific calculator with trigonometry functions, logarithms, and square root features. Cos: $10-$15

- Algebra I A/B
- Algebra I
- Algebra II
- Geometry
- Finite
- Statistics

Graphing Calculator: TI-84CE or Silver Plus Edition Cost: $130-watch for it to be on sale beginning of August

- Online College Statistics – Required
- Honors Algebra II– recommended
- College Algebra – Required
- Pre-Calculus – Required
- AP Calculus – Required

Calculators such as the TI-89 and TI-92 will not be allowed.

Algebra IA (1 credit, Gr. 9-12) Algebra IA is a course designed to teach Algebra I skills to students who have performed below the acceptable readiness marker for Algebra I on a quantitative assessment. This course will count toward Maryville High School graduation requirements, but is not generally accepted on its own for competitive college admissions. The goal of this course is to deliver the first six (6) units of Algebra I instruction over the course of one (1) school year in hopes struggling students form a deeper understanding of the content. Students enrolled in this course will take Algebra IB the following school year. Teacher placement required.

Algebra IB (1 credit, Gr. 10-12) Algebra IB is a course designed to continue teaching Algebra I skills to students who have completed Algebra IA the previous school year. The goal of this course is to deliver the final six (6) units of Algebra I instruction over the course of one (1) school year in hopes of preparing students to be ready to move on to Geometry the following school year. **Prerequisite**: Algebra IA

ALGEBRA I (1 credit, Gr. 9-12) Algebra I is a prerequisite for all other mathematics courses. The following math strands will be emphasized: algebra foundation, functions & relations, equations, inequalities, polynomials, quadratics, and probability & data analysis. The major focus in all of these strands will be higher order thinking and reasoning skills. Strong emphasis will be placed upon real-world application problems. **Prerequisite:** Good elementary and middle school mathematics background and a strong work ethic.

GEOMETRY (1 credit, Gr. 9-12) The student will study the basic figures of geometry, develop an understanding of the nature of proofs, and learn to write two column proofs. Exercises will reinforce algebraic and arithmetic skills. The students will study basic geometric foundation, logic and reasoning, coordinate geometry, congruence and similarity of triangles, polygons, quadrilaterals, circles, solids, and transformations. Concepts of congruent triangles, including work with lines and angles, will be mastered. **Prerequisite:** Algebra I or completion of BOTH Algebra IA and Algebra IB.

ALGEBRA II (1 credit, Gr. 10-12) In Algebra II, students will review the basic terminology, skill, and applications of Algebra I. Topics covered include Linear Systems, Functions, Polynomials, Equations & Inequalities, Radicals, Exponential and Logarithmic Equations, Sequences & Series, Matrices, and Probability & Statistics. **Prerequisite:** Algebra I and Geometry

HONORS ALGEBRA II (1 credit, Gr. 10-12) This course continues to practice the fundamental skills as well as extend the topics of algebra and trigonometry. Topics include logarithms, trigonometric identities, infinite series, conic sections, matrices, and determinants. This course is a prerequisite for ALL dual credit math courses offered at MHS. A graphing calculator (Texas Instruments 84 CE) is HIGHLY recommended, but not required. **Prerequisite:** Algebra I, Geometry and teacher recommendation. **At the conclusion of the fall semester, any student with a grade below 70% will be automatically removed from Honors Algebra II.**

FINITE MATHEMATICS (0.5 credit, Gr. 11-12) This course is designed for senior level students. Finite Mathematics helps to determine the best course of action. This course will help to analyze problems in business and social science and provide methods that help determine the implications and consequences of various choices available. Predictions and trends can be obtained from mathematical models. Mathematical analysis can provide a basis for making a good decision. **Prerequisite:** Algebra I, a Geometry course and an Algebra II course. (may be concurrently enrolled) This **course will only be offered in the Fall Semester.**

STATISTICS (0.5 credit, Gr. 10-12) This course is intended for students who have successfully completed at least one year of high school Algebra. Statistics will serve as an introductory course in statistical concepts or a course in mathematics for general education. Statistics is the study of how to collect, organize, analyze and interpret numerical information. Topics of study will include the following: organizing data, averages, variation, elementary and binomial probability, graphs and related topics, distribution estimation, sampling, hypothesis testing and statistical decision making. **Prerequisite:** Algebra I. **This course will only be offered in the Spring Semester.**

COLLEGE ALGEBRA (0.5 credit, Gr. 11-12) College Algebra topics include Functions, Modeling and Rates of Change. A graphing calculator (TI-84CE or 84 Silver plus) is required, and students are expected to bring it to class daily. This course will be using the same texts and the same syllabus that the university uses. **Prerequisite:** Algebra I, Geometry and any Algebra II course. **3 credit hours from NWMSU in Mathematics 17-118 may be obtained if dual credit is selected. Students should select either College Algebra OR Pre-Calculus. Students will not be permitted to take both.**

PRE-CALCULUS (1 credit, Gr. 11-12) Pre-Calculus topics include functions and graphs, systems of equations and inequalities and advanced trigonometry concepts. This course is designed for students who plan to continue their study in college level mathematics. A graphing calculator (TI-84CE or 84 Silver plus) is required, and students are expected to bring it to class daily. This course will be using the same texts and the same syllabus that the university uses. **Prerequisite:** Algebra I, Geometry and Honors Algebra II course. **5 credit hours from NWMSU in Mathematics 17-117 may be obtained if dual credit is selected. Students should select either College Algebra OR Pre-Calculus. Students will not be permitted to take both.**

AP (ADVANCED PLACEMENT) CALCULUS (1 credit, Gr. 12) This course is an introduction to single variable calculus. The analysis of graphs of a variety of functions and graphing techniques will be used to demonstrate concepts such as limits, continuity, derivatives, and integrations. Other topics will include applications of derivatives and integrals including shell and disk volumes along with the area between 2 curves. The course is designed to prepare students for taking the Advanced Placement Calculus AB exam administered by the College Board each May (optional). A TI-84 Silver plus graphing calculator is required for this class and should be brought daily. **Prerequisite:** Algebra I, Geometry and Honors Algebra II and Pre-Calculus. Student should be proficient in the use of a graphing calculator. **4 credit hours from NWMSU in Mathematics 17-120 may be obtained if dual credit is selected. At the conclusion of the fall semester, any student with a grade below 70% will be automatically removed from this course.**

SCIENCE

Science Sequence Recommendations

The MHS Science department strongly recommends that students complete one of the following sequences of courses.

3 Science credits Required in Missouri for graduation

	MHS Diploma	College Prep	Honors College Prep
	These courses will earn you an MHS diploma and prepare you for the workforce, military, trade school, etc.	These courses will allow you to be admitted to community colleges and some four-year colleges and universities. Please investigate the admission requirements at the college of your choice.	These courses will best prepare you to be admitted and be successful at 4-year colleges. Please investigate the admission requirements at the college of your choice.
Freshman	Earth Science or Biology	Biology	Biology
Sophomore	Biology or Physical Science	Physical Science	Physical Science or Chemistry *
Junior	Physical Science or Material Science or Embedded Science Credit	Material Science or any of the Honors College Prep courses	Chemistry * or Physics * or College Biology * or Human Biology *
Senior	Embedded Science Credit (if needed)	Optional- any of the Honors College Prep courses	Chemistry * or Physics * or College Biology * or Human Biology *
			*weighted courses

PLTW – Engineering	**PLTW – Bio-Medical**
1st Year - Intro to Engineering – PA credit	**1st Year**– Principles of Bio Med Science – PA credit
2nd Year - Principles of Engineering-SC Credit	**2nd Year** – Medical Interventions* -SC credit
3rd Year - Civil Engineering & Architecture * - SC Credit	These pathways are considered college preparatory for the medical and engineering fields.
4th Year- Engineering Design & Development* – SC Credit	

EARTH SCIENCE (1 credit, Gr. 9) This course is a class that collectively seeks to understand the Earth and its neighbors in space. The main purpose of Earth Science is as an introductory science class and provide students with the skills to be successful in Biology. Students will explore the Earth and the intricate workings of our Earth's systems. Experimentation and laboratory activities are the primary methods of learning.

BIOLOGY (1 credit, Gr. 9) This course is a prerequisite for Human Anatomy, Chemistry, and College Biology. In this survey course, the student will study living things. Students explore such topics as the meaning of life, structure and function of cells, chemistry of life, energy for organisms (i.e. photosynthesi8s and respiration), reproduction, heredity, classification, evolution of living things, and ecology. Student will use scientific equipment and develop proper laboratory techniques and thinking skill. **Biology end-of-course exam will be taken at the end of this course. Prerequisite: None**

PHYSICAL SCIENCE (1 credit, Gr. 10) This is an introductory level course to provide the background necessary for all chemistry and physics classes offered to upper classmen. Students will investigate such topics as structure, properties and interactions of matter and its relationship to forces, heat, light and sound. This class will provide hands-on activities and labs while developing problem solving skills. **Prerequisite:** Biology

MATERIAL SCIENCE (1 credit, Gr. 11-12) Material Science blends the basic principles of chemistry and physics into a hands-on laboratory course. By observing, creating, experimenting and building projects, students will learn about materials and their properties. The major units covered will be solids, metals, ceramics, and plastics. Students who take this course will develop skills and proficiencies by using actual equipment used throughout industry. **A lab fee will be charged for this course.**

CHEMISTRY (Dual Credit 1 credit, Gr. 10-12) The purpose of this course is to provide the student the basic principles of chemistry. It is a lecture and laboratory course. The course involves a study of basic molecular structure, periodic relationships, and thermodynamic approach to reaction systems. **4 credit hours from NWMSU in Science 24-114/115 may be obtained if dual credit is selected. Prerequisite:** Biology. Sophomores can take chemistry if they have a 21 or higher on the ACT or PreACT and a 3.50 GPA

PHYSICS (1 credit, Gr. 11-12) This is a combined lecture and laboratory course designed to provide the necessary background in physics to fill general education requirements and to fill general physics needs for pre-professional programs. Major topics covered are structure and properties of matter, motion mechanics, work, energy, momentum, elasticity, waves, temperature, and heat. **4 credit hours from NWMSU in Science 25-110/111 may be obtained if dual credit is selected. Prerequisite:** Algebra II must have been taken previously or be taken concurrently.

COLLEGE BIOLOGY (1 credit, Gr. 11-12) This course provides students with a broad understanding of the basic principles of biological science such as cells, energy production, photosynthesis, genetics, plant and animal physiology, ecology and diversity. **Course Rationale:** This course is designed to provide students with a broad understanding of biological science so that after successful completion, students should understand the intricate relationship between living organisms and their environment. Student should be able to more intelligently act upon important issues facing our society. **4 credit hours from NWMSU in Science 04-102/103 may be obtained if dual credit is selected. Prerequisite:** Biology.

HUMAN BIOLOGY (1 credit, Gr. 10-12) In this course, students will study the major organ systems of the human body with emphasis on anatomy and physiology of the organs, tissue, and cells. The use of acceptable dissecting techniques and identifying the structure and function of human body parts are important in this course. **3 credit hours from NWMSU in Science 04-104 may be obtained if dual credit is selected. Prerequisite:** Biology

PRINCIPLES OF BIO MED SCIENCE (PBS) (1 practical art credit, Gr. 9-11) This is an introductory level course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

MEDICAL INTERVENTIONS (MI) (1.0 credit, Gr. 11-12) Second and third year of Bio Med Class of PLTW. Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through cases, students learn about a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. **Prerequisite:** HBS with grade of B or above or PBS with grade of B or above or microbiology.

INTRODUCTION TO ENGINEERING DESIGN (IED) (1 practical art credit, Gr. 9-12) IED is a one-year class that falls under the Project Lead the Way (PLTW) engineering curriculum. PLTW is part of a national movement towards STEM (science, technology, engineering, and math) curriculum. STEM courses are classes which offer students hands-on, project-based approach to learning and applying science and math towards real world problems. **A student who takes IED should have strong math and computer skills**. This "year one" course in the PLTW Engineering track will set the groundwork for future PLTW courses offered at MHS. An exam follows the coursework and many colleges and universities (i.e. Missouri S&T) offer credit for completion and exemplary exit exam scores.

PRINCIPLES OF ENGINEERING (POE) (1 credit, Gr. 10-12) POE is a one-year class that falls under the Project Lead the Way (PLTW) engineering curriculum. PLTW is part of a national movement towards STEM (science, technology, engineering, and math) curriculum. STEM courses are classes which offer students hands-on, project-based approach to learning and applying science and math towards real world problems. A student who takes POE should have strong math and computer skills. This "year two" course in the PLTW Engineering track will set the groundwork for future PLTW courses offered at MHS. An exam follows the coursework and many colleges and universities (i.e. Missouri S&T) offer credit for completion and exemplary exit exam scores. **Prerequisite:** IED with grade of C or above.

CIVIL ENGINEERING AND ARCHITECTURE (CEA) (1 credit, Gr. 11-12) CEA is a one-year class that falls under the Project Lead the Way (PLTW) engineering curriculum. PLTW is part of a national movement towards STEM (science, technology, engineering, and math) curriculum. STEM courses are classes which offer students hands-on, project-based approach to learning and applying science and math towards real world problems. A student who takes IED should have strong math and computer skills. **Prerequisite:** POE with grade of C or above.

Architectural Style and Guidelines

ENGINEERING DESIGN AND DEVELOPMENT (EDD) (1 credit, Gr. 12) This is the capstone course in the PLTW high school engineering program. It is a research course in which students will work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. Students will work closely with a community mentor and experts to sharpen their communication and interpersonal skills. This course is appropriate for 12th grade students who have completed 3 years of PLTW Engineering foundation courses. **Prerequisite:** IED**,** POE & CEA with grade of C or above.

SOCIAL STUDIES



Social Studies Sequence Recommendations

The MHS Social Studies department strongly recommends that students complete one of the following sequences of courses.

3 Social Studies credits (including required American Government & American History) required in Missouri for graduation

	MHS Diploma	College Prep	Honors College Prep
	These courses will earn you an MHS diploma and prepare you for the workforce, military, trade school, etc.	These courses will allow you to be admitted to community colleges and some four-year colleges and universities. Please investigate the admission requirements at the college of your choice.	These courses will best prepare you to be admitted and be successful at 4-year colleges. Please investigate the admission requirements at the college of your choice.
Freshman	Intro to Geography or American History	American History	American History
Sophomore	American History or World History	World History	World History
Junior	American Government	American Government Or Honors American Government	Honors Am Government* AP Psychology * / &--or U.S. Since 1877*
Senior		Optional- any of the Honors College Prep courses	AP Psychology * / &--or U.S. Since 1877*
Electives	Germany & The Holocaust American West	Germany & The Holocaust American West	Germany & The Holocaust American West
			*weighted courses

INTRO TO GEOGRAPHY (1 credit, Gr. 9) Geography is the study of Earth and its people. This course will cover the 5 basic themes of Geography – location, place, interaction, movement and region. Students will examine the world as a whole and analyze how technology has helped create a global village. Throughout the course, different regions of the world will be studied to determine what physical features and climates are present, the people and cultures found in the region, the economy, and environmental issues impacting the region.

AMERICAN HISTORY (1 credit, Gr. 9) This course surveys American History from Reconstruction (1877) to the present. Time is given to relating the importance of history to modern day society. An emphasis is given to the social, economic, and political evolution of the United States. Credit in American History is required for graduation from high school in Missouri. **Homework:** 1-2 hours/week

WORLD HISTORY (1 credit, Gr. 10-12) World History is a chronological survey course emphasizing social studies and content knowledge. This course will provide students with opportunities to comprehend the nature of civilization and their own place in history. The scope of the course starts with prehistoric times and concludes with the beginning of the 21st century. **Homework:** 1-2 hours/week **Prerequisite:** none

AMERICAN GOVERNMENT/HONORS AMERICAN GOVERNMENT (1 credit, Gr. 11) American Government and Honors American Government will provide student's knowledge about how our nation's government was founded, organized, and morphed since its creation. The main points of focus will consist of our nation's founding, structure, politics, and changing policies. Students will engage with materials from the Founding Fathers and court cases that better define Americans' rights and the role the government plays in our lives today. Both classes will examine the United States Constitution and the State of Missouri Constitution. An exam will be given for both constitutions and students must pass each in order to graduate. This class will also be required to take the End of Course Exam at the conclusion of the course. Any student with a D or F will automatically be switched to a regular American Government class. **Homework:** 2-3 hours/week **Prerequisite for Honors American Government:** have an A- average in all social studies classes OR an overall GPA of 3.25.

AP PSYCHOLOGY (1 credit, Gr. 11-12) Psychology is the study of mental processes and behavior in humans and animals. Students will understand differences between abilities we are born with and those which are learned and how to help each other learn and investigate the feelings and behaviors of individuals in social settings. There will be some examination of how beliefs and feelings influence a person's behavior. Role playing, projects, and student interaction and discussion will be important aspects of the course. **Homework:** 1-3 hours/week **Prerequisite:** have an A- average in all social studies classes OR an overall GPA of 3.25. It is recommended that the student has taken honors-level courses.

The U.S. SINCE 1877 (1 credit, Gr. 11-12) This course surveys American History from Reconstruction (1877) to the present. Time is given to relating the importance of history to modern day society. Student that enroll in U.S. since 1877 and who meet the enrollment criteria and complete the additional course work may receive 3 hours of credit from NWMSU, if selected. Dual credit class members will be expected to do more research, analysis, and writing. **Homework:** 2-3 hours/week **Prerequisite:** have an A- average in all social studies classes OR an overall GPA of 3.25.

GERMANY AND THE HOLOCAUST: (0.5 credit, Gr. 9-12) This course focuses on German history since its unification in 1871, through the crushing defeat of World War I, its return to power under Adolf Hitler, the dark and secret dealings of the Holocaust and finishes with its division and reunification during the Cold War. The course will provide the students with the opportunity to explore primary documents, visual artifacts, and firsthand accounts of the events that shaped German history.
Homework: 1-2 hours per week. **Prerequisite:** None.

THE AMERICAN WEST: (0.5 credit Gr 9-12) Kiowa poet N. Scott Momaday remarked that the American West "is a place that has to be seen to be believed, and it may have to be believed in order to be seen." This class will explore the history of what we know as the American West. We will study Native American cultures that lived existed in America, American expansion into the west, and the impact of "the west" on our popular culture. The class will utilize lecture/discussion, research projects, documentaries, and feature films. American West will not necessarily follow a chronological timeline, we will utilize flexibility to focus more on topics in a thematic approach.
Homework: 1-2 hours per week. **Prerequisite:** None



ART I (1 credit, Gr. 9-12) Art I is a basic course in art upon which all other art courses are designed. Students will study the elements of design. Two- and three-dimensional types of art will be included with practical experiences in using a variety of materials in artistic expression. **Prerequisite:** none

DRAWING I & II (0.5-1 credit, Gr. 10-12) Drawing is a semester course in which students will explore a broad range of approaches to art through sketching and formal drawing techniques. Students will learn to draw from both observation and imagination. Development of technical skills and artistic vocabulary will include contour drawings, black and white value studies, color theory, still life, portraits, figure drawing, plus alternative approaches which encourage the constant creative process of art making. **Prerequisite:** Art I, B average

SCULPTURE I & II: (0.5-1 credit, Gr. 10-12) Sculpture is a semester course in which students will explore a broad range of three-dimensional art techniques. Utilizing materials such as ceramics, wood, plaster, and found objects, students will learn to create and utilize design plans, carve, mold, and assemble materials based on both modern and historically based art practices and techniques. **Prerequisite:** Art I, B average

PAINTING I & II (0.5-1 credit-1, Gr. 10-12) Painting is a semester course in which students will explore a broad range of approaches to art through experimental and formal painting techniques. Students will learn to paint from both observation and imagination. We will explore acrylic, tempera, watercolor, and oil paints while diving into color theory, art interpretation, abstract painting and realism. We will explore different art periods and the artist styles associated with those time periods. **Prerequisite:** Art I, B average

MIXED MEDIA (0.5-1 credit, Gr. 10-12) Mixed Media is a semester course in which students will explore a broad range art media including but not limited to fabric dying (batik, tie-dye), printmaking, weaving, ceramics, and papermaking. Students will experiment with different materials as we explore many art methods. We will study a broad variety of art materials used throughout history as well as the artists that work with these materials. **Prerequisite:** Art I, B average. This class may not be repeated.

ADVANCED ART (0.5-1 credit, Gr. 12) This class is designed for the experienced art student that has completed many previous art classes. The student must be self-motivated.
Prerequisite: Instructor approval

MIXED CHOIR (1 credit, Gr. 9-12) This year long course introduces students to musicianship through music performance of challenging and varied literature. This choir will introduce the basics of vocal technique through the study of posture; breathe support, and vowel execution. Rehearsals of standard choral literature, as well as study of music theory, music history, and general music skills are given equal importance in the course. Students will continue to develop their knowledge of music theory, begin to analyze and evaluate music, and use critical thinking skills to make refinements, in their performance. Individual and ensemble performance skills will be expanded through musical expression and technical accuracy. Members of this choir are bound by the grade point and attendance requirements of MSHSAA. Mixed choir may be taken yearly, and fulfills the fine arts credit needed by all high school students for graduation.

ILLUMINATION (1 credit, Gr. 9-12) Illumination is group of singers that demonstrate the highest level of vocal music performance. Emphasis is placed on the study of vocal health and technique, breath control, group balance and intonation, sight reading skill and ear training; melodic, harmonic, and rhythmic concepts, rehearsal skills, practice habits, and performance etiquette. Through the combination of choral singing and dance movements, the ensemble will also perform as a show choir. Ensemble members will be required to compete at various competitions that include District/State Festivals and possible selected Show Choir competitions/Invitationals. Members of this choir are bound by the grade point and attendance requirements of MSHSAA. It is expected that all students who enroll/audition in show choir complete the entire season. Illumination may be taken yearly, and fulfills the fine arts credit needed by all high school students for graduation. **Prerequisite:** Successful completion of middle school choir, show choir, mixed choir and/or Spectrum audition and permission of the Instructor

SPECTRUM CHAMBER CHOIR (1 credit, Gr. 9-12) Spectrum is an auditioned group of male and female singers that demonstrate the highest level of vocal music performance. Emphasis is placed on the study of vocal health and technique, breath control; group balance and intonation; sight reading skills and ear training; melodic, harmonic, and rhythmic concepts; rehearsal skills, practice habits, and performance etiquette. Through the combination of choral singing and dance movements, the ensemble will also perform as a show choir. Ensemble members will be required to compete at various competitions that include District/State Festivals and possible selected Show Choir competitions/Invitationals. Members of this choir are bound by the grade point and attendance requirements of MSHSAA. Spectrum may be taken yearly, and fulfills the fine arts credit needed by all high school students for graduation. **Prerequisite:** Spectrum audition and permission of the Instructor

DRAMA (1 credit, Gr. 9-12) Drama is designed to introduce students to or further their experience in this performing art. The class will study the basics of drama, such as movement, character, voice, and motivation, as well as the history of drama. Scene work will be extensive, as students will be expected not only to perform scenes from great playwrights of the theater, but also create, perform, and film their own pieces. Improvisational skills will be focused on throughout the year, as students develop the skills to think quickly on their feet. Drama may be taken yearly, and fulfills the fine arts credit needed by all high school students for graduation.
Prerequisite: None

BAND (MARCHING SYMPHONIC) (1 credit Gr. 9-12) The course consists of marching band the first quarter and symphonic band the last three quarters of the year. Students are expected to devote time outside of the school day for individual practice, rehearsals, performances, and day trips away from Maryville. During the marching season, the band regularly travels to band contests. The marching band performs at all home football games, in addition to Saturday band contests. Students are expected to audition in November for chair placements in the symphonic band. The symphonic band rehearses daily and performs two or three concerts during the last three quarters. Students in the symphonic band are exposed to a wide selection and variety of music, ranging from pop to original band literature. Students are also provided the opportunity to participate in solo and variety of music, ranging from pop to original band literature. Students are also provided the opportunity to participate in solo and ensemble work during the spring semester. Band is a yearlong class and may be repeated for credit. Students wishing to be in the marching or concert band must have participated in band the semester prior. Schedule conflicts with band during the fall or spring semesters should be brought to the directors" attention ASAP.
Prerequisite: Middle School or Junior High Band or a demonstrated ability to play an appropriate musical instrument.

AMERICAN POPULAR MUSIC (Dual Credit 1 credit, Gr. 11-12) A listening survey course, with a chronological approach, covering the years 1820 to the present. Emphasis will be on both the music and the sociological climate, focusing on cultural and environmental factors, reflected and advocated by the music. The use of audio/visual equipment will be used throughout the course. (YouTube, CD's, Internet, DVD's etc.). The course will examine pop/rock music from its roots to its appearance in the 1950s to it evolution throughout the 20th century. A main focus of the course will be the cultural /social aspects reflected in and affected by this popular music.

TECHNICAL THEATRE (1 credit, Gr. 9-12 **Practical Art Credit**) Students are exposed to various positions in technical theatre by designing and building sets, designing and implementing stage lighting, configuring and running sound, designing and constructing costumes and makeup, and learning how to appropriately "tech" an upcoming production. Technical crew engages in hands-on learning, designing and building pieces for the productions, requiring a deadline for production week. All students will follow safety rules and produce work that will be viewed by the public. Students will be required to give additional hours working on a crew for one of the stage productions. This allows students to have a greater hands-on experience using information learned in class.

HEALTH/PHYSICAL EDUCATION

HEALTH (0.5 credit, Gr. 9) This course will meet the high school health education requirement. Health provides a general study of health-related issues facing young people today. The areas covered affect an individual's everyday living. The areas include awareness of mental health, venereal diseases, smoking, alcohol, cancer, drug abuse, first aid, exercise, and quackery. Each student will do individual research on selected topics related to health.

LIFETIME ACTIVITIES (1 credit, Gr. 9) This course provides an introduction for the study of activities including softball, volleyball, basketball, and other physical activities. Students will develop skills in the activities as well as knowledge of the rules for each activity. The student is required to dress out and participate daily. This class contains a unit on Bowling that requires a fee for participation.

TEAM SPORTS (1 credit, Gr. 10-12) Team Sports provides for the study of activities including softball, golf, archery, horseshoes, croquet, speedball, volleyball, and basketball. Students will develop skills in the activities, knowledge of the rules, and will pass written test in each activity. The student is required to dress out and participate daily. This class contains a unit on Bowling that requires a fee for participation.

GENERAL FITNESS (1 credit, Gr. 9-12)
This course is designed for those students who want to improve their overall physical fitness. Daily physical activities will focus on indoor and outdoor walking, biking, and other body weight movements with the goal of improving your physical wellness. This class is different from a Lifetime or Team Sports class as it doesn't involve games, however, more emphasis on your personal fitness. This student is required to dress out and participate daily.

ATHLETIC PERFORMANCE (1 credit, Gr. 9-12) This course emphasizes athletic performance enhancement. Every student who participates in a MHS sport of activity is encouraged to enroll in this course. Through setting performance goals in weight training, cardiovascular development, plyometrics, agility and flexibility, the student athlete will perform at a higher level athletically and reduce the chance of injury. We offer multiple fitness programming options to meet the students where they are at throughout the school year. Students who are not in a sport or activity are still encouraged to take this course and improve their overall athleticism. This student is required to dress out and participate daily.

GENERAL ELECTIVE COURSES

PEER COACHING (1 credit, Gr. 10-12) This course provides an opportunity for general education students to assist student with special needs and their teachers in a classroom setting. Tasks may include clerical help, baking, and playing games. Peer Coaches will be assigned with teacher approval. This class is graded on a Pass/Fail basis. **Note: Student must have a minimum cumulative GPA of 3.0 and attendance of 95% or higher. Students who request this class will be required to undergo an application process.**

OFFICE/LIBRARY/TEACHER ASSISTANT (0.5 or 1 credit, Gr. 12) This course offers hands-on office experience, where students are to practice proper telephone procedures, deliver messages, make copies, operate office equipment, and perform miscellaneous office or classroom tasks under the direct supervision of office personnel, administrators, and/or teachers. Office assistants may be assigned to the main office, Northwest Technical School office or Counseling Center. Library assistants will be assigned to the Library. Teacher assistants will be assigned with teacher and counselor approval. This class is graded on a Pass/Fail basis. **Note: Student must have a minimum cumulative GPA of 3.0 and attendance of 95% or higher.**

CAPS (2 credits, Gr. 12) Students who are interested in the medical field will work on job skills, resumes, interviews, etc. during the first quarter. Students will also be doing an online component during this class. Students will have the choice of doing online certification to be a pharmacy technician through NHA or they may enroll in a different dual credit program on their own, if preferred. The class will also have guest speakers and job shadowing with the different fields the students have named that are of interest to them. MHS has formed partnerships with local medical businesses so that each student will have an internship for the second semester. The course is intended to give students field experience in a variety of healthcare areas to narrow down interests before graduation. **Homework:** 1-2 hours weekly **Prerequisite:** None, but must be a senior



CONNECT – A class period held for all students to focus on their individual scholastic goals.

CONNECT-GENERAL (0.125 credit, Gr. 9-12) Small class focused on developing skills necessary for academic success. This Connect is for all freshmen and any student with a GPA below 2.49.

CONNECT-ACADEMIC (0.125 credit, Gr. 10-12) This Connect is for students who have a 2.5 GPA or higher and not behind in credits.

CONNECT-ATHLETICS (0.125 credit, Gr. 10-12). This is a Connect is for students who participate in an MHS sport and have a GPA of 3.5 or higher.

CONNECT-PERFORMANCE (0.125 credit, Gr. 10-12) This Connect is for students who participate in Band/Spectrum/Illumination/Musical or play and have a GPA of 3.5 or higher.

CONNECT-LIBRARY (0.125 credit, Gr. 10-12) This Connect is held in the Library and will be a quiet study hall. Students must have a GPA of 3.5 or higher

CONNECT-AG (0.125 credit, Gr. 10-12) This Connect held in the Tech School is for students who are enrolled in a Tech School class and have a 2.5 GPA or higher and not behind in credits.

CONNECT-A+ MENTOR (0.125 credit, Gr. 11-12) This is a Connect for students enrolled in the Missouri A+ Program allowing them to earn tutoring hours toward A+. Note: Students must have a minimum cumulative GPA of 2.5 and good attendance.

CONNECT-COLLEGE 101 (0.125 credit, Gr. 12) Students will explore career possibilities, post-secondary institutions, and scholarship opportunities. Emphasis will be placed upon researching college and career options, completing admission applications and the financial aid application process. This class will be valuable for students needing guidance through the college application process. **Note: Student must have a minimum cumulative GPA of 2.5, and must plan to attend a 2- or 4-year college/university/tech school in the semester immediately following MHS graduation.**

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PRACTICAL ARTS: BUSINESS

COMPUTER APPLICATIONS (0.5 credit, Gr. 9-12) Usage of business software including word processing, spreadsheet, presentation, Internet and electronic communications while utilizing both Microsoft Office and Google applications. Targeted to students, college or employment-bound, who want to expand their computer knowledge. Students will also explore hardware and coding in this course. **Prerequisite:** None

Competencies/Objectives:

- Demonstrate improvement in speed and accuracy of keyboarding
- Execute basic computer operations
- Identify safe internet practices
- Demonstrate mastery of word processing applications
- Demonstrate master of spreadsheet applications
- Demonstrate master of presentation software
- Demonstrate knowledge of database software

SPOOFHOUND SPORTS ENTERTAINMENT MULTIMEDIA (.5 credit, Gr. 10-12) Students will learn basics of media such as developing vocabulary, analyzing marketing information, interpreting research data, and understanding marketing concepts. They will utilize hardware and software to manipulate media for marketing campaigns and promotions of Spoofhound events and communications. **Prerequisite:** Multimedia or teacher approval if multimedia not taken. Cannot take at same time as Multimedia.

Competencies/Objectives:

- Explore Multimedia basics
- Navigate target markets
- Develop multimedia platform publications
- Develop imported graphics and original media for sports
- entertainment marketing campaigns of school events
- Explore WeVideo, Adobe Premiere, iMovie, Photoshop, Daktronics
- Develop promotional mix and marketing campaigns including
- endorsements and social media marketing
- Develop branding images and media production

MULTIMEDIA (0.5 credit, Gr. 9-12) Students will work with multimedia software, such as iMovie, Garageband, WeVideo and Adobe Premiere and After Effects, to develop electronic and video presentations for use on web pages and social media platforms. They will learn how to manipulate text, art and graphics, photography, animation, audio, and video for presentations in various media formats. **Prerequisite:** Computer Applications

Competencies/Objectives:

- Apply copyright and fair use laws when designing multimedia products
- Manage a variety of electronic files
- Create video files
- Create Audio files
- Edit and export video

BANKING AND FINANCIAL SERVICES (0.5 credit, Gr. 10-12) This course applies money and economic concepts to the development of personal financial goals and to the preparation of students for careers in which they plan, manage and analyze the financial and monetary aspects and success of business enterprises. Skills in money management deal with the study of basic concepts of economics, insurance, credit, saving, investments and budgeting. The course also covers business financial matters such as business cycles, opportunity costs, cost-benefit analysis, methods of financing businesses, stocks and bonds, profit and lost and others. **Prerequisite:** None

Competencies/Objectives:

- Learn about careers in banking, the Federal Reserve System, and its control of interest rates and money supply
- Learn about the various services that banks and credit unions provide and the individual job positions of each institution
- Describe and illustrate the characteristics of stock funds, government and corporate bond funds, and manage funds (mutual funds) versus indexed funds
- Identify various careers in business finance and banking
- Develop an understanding of opportunity costs and managing risk (insurance)
- Explore use of credit and obtaining credit by identifying the opportunity costs of credit decision

BUSINESS MANAGEMENT I (0.5 credit, Gr. 10-12) This course is designed to help students develop an understanding of skills and resources needed to manage a business. Instruction includes a general overview of American business, forms of business ownership, personnel management, labor-management relations, public and human relations, taxation, and government regulations. The use of computers and software as tools in making business decisions in area such as accounting, sales analysis, and inventory control is also introduced. **Prerequisite:** None

Competencies/Objectives:

- Understand basic economic and political systems in relation to global business including trade import/export
- Identify career opportunities in business management Describe human resource policies and procedures used in business including performance appraisals
- Identify current laws and regulations affecting businesses
- Understand financial management statements and tools available for decision making
- Understand various roles and functions of management and leadership styles
- Demonstrate effective communication skills
- Utilize workplace expectations to work cooperatively with others, solving problems, and satisfying customers' needs

BUSINESS MANAGEMENT II (0.5 credit, Gr. 10-12) Business Management II is a course for students who are interested in expanding their knowledge of basic business functions with a focus on sales and marketing concepts. Competencies covered include marketing and economic concepts, business communication, advertising and promotion, salesmanship, distribution, marketing research and planning. **Prerequisite:** None

Competencies/Objectives:

- Utilize the concepts, strategies and systems available to obtain and convey ideas and information
- Process, evaluate and disseminate information to assist business decision-making
- Manage customer relationships
- Determine target market and select strategies for audience
- Understand economic principles fundamental to business operations
- Communicate information about products, services, and ideas to achieve desired outcome
- Understand persuasive communication to influence purchasing decisions
- Understand concepts and strategies utilized in pricing decisions
- Understand process needed to develop, maintain, and improve product or service mix

WEB DESIGN (1 credit, Gr. 10-12) Learn the basics of HTML, CSS & JavaScript Coding Languages needed to create a basic website. Discover the advantages of using web page software such as Atom, and other Web authoring tools to design, edit, launch and maintain Web sites, and pages. Such topics as Web page standards, Web design elements, user interfaces, special effects, navigation, and emerging Web technologies will be included. **Prerequisite:** Computer Applications

Competencies/Objectives:

- Evaluate web pages and resources
- Design an effective web site
- Us HTML & CSS coding to create basic web pages
- Use web publishing techniques

BUSINESS TECHNOLOGY (1 credit, Gr. 11-12) Focus is on the use of business software and equipment, communications, video conferencing, networking, desktop publishing and multimedia projects. Students will be given the opportunity to enhance their knowledge of how the computer's hardware functions and advanced way to use the Microsoft Suite including Word, Excel, PowerPoint, and Access. (3 credit hours from NWMSU 44-130 which is required for all majors at NWMSU may be obtained if dual credit is selected) **Prerequisite:** Computer Applications

Competencies/Objectives:

- Define and utilize appropriate computer resources, including networks and personal computers
- Demonstrate basic and advanced features and functions of particular word processing, spreadsheet, presentation, database, and integrated applications
- Utilize appropriate methods to locate and evaluate information on the WWW
- Recognize hardware and software capabilities and limitations
- Utilize on-line help and other resources to answer questions about computer-based applications
- Identify impacts of computers on society
- Identify ethical issues associated with computer technology
- Develop the ability to work successfully in a self-direct learning environment

NETWORK ADMINISTRATION (1 credit, Gr. 11-12) In this course, students will build on their knowledge of computers as they gain skills required to install, configure, upgrade, troubleshoot, and repair PC hardware components and systems. Students will develop skills maintaining networks using various Window-based operating systems to manage, install, maintain, and troubleshoot applications, operation of peripherals, wiring, and other network components. **Prerequisite: Computer Applications**

Competencies/Objectives:

- Basic Computer Concepts
- Networking Concepts
- Safety
- Communications
- Hardware
- Connectivity
- Software
- Network Operations
- System Risk Management
- Troubleshooting

PERSONAL FINANCE (0.5 credit, Gr. 11-12) THIS CLASS COUNTS AS A PERSONAL FINANCE CREDIT NOT A PRACTICAL ARTS CREDIT. This is a semester-long course introducing students to various concepts associated with personal finance. The course is geared toward practical knowledge that is necessary for financial decision making in everyday life. This course will assist students in exploring careers, budgeting, managing finances, investing and saving, using credit wisely, making informed decisions on housing, automobiles and insurance as well as help students understand basic consumer rights and responsibilities. Students will complete a job shadowing experience as part of this course.
Prerequisite: None

Competencies/Objectives:

- College/Career Planning
- Money Management
- Saving and Investing
- Taxes
- Banking Credit and Spending
- Consumerism
- Insurance

ACCOUNTING I (1 credit, Gr. 10-12) Students will learn the basic principles and concepts of double-entry accounting while exploring a variety of business organization types including sole proprietorships, partnerships, and corporations. Students will complete at least two full accounting cycles which include everything from the opening entry to the post-closing trial balance. Manual and computerized accounting procedures will be used. Proper use of personal bookkeeping records will also be discussed including balancing checkbooks and the importance of having good credit. **Prerequisite:** None

Competencies/Objectives:

- Complete the various steps in the accounting cycle for a service business organized as a proprietorship
- Journalize and post transactions
- Accurately manage a checking account.
- Record financial changes to a merchandising business
- Prepare financial statements for a service business organized as a proprietorship
- Use special journals and subsidiary ledgers
- Prepare payroll records
- Prepare records and financial statements for a merchandising business organized as a corporation
- Prepare records and financial statements related to a business organized as a partnership

ACCOUNTING II (1 credit, Gr. 11-12) Review of basic principles and concepts of double-entry accounting from Accounting I class; review of sole proprietorships account and changes necessary for partnerships; accounting for merchandising corporations; accounting for special procedures and corporations. Computerize accounting procedures will be used in Aplia online and Excel. **Prerequisite:** Accounting I & Teacher Recommendation

Competencies/Objectives:

- Complete the various steps in the accounting cycle for a service business organized as a proprietorship
- Journalize and post transactions
- Accurately manage a checking account.
- Prepare financial statements for a service business organized as a proprietorship
- Prepare records and financial statements for a merchandising business organized as a corporation
- Prepare accounting for Uncollectible Accounts Receivable
- Accounting for Plant Assets and Depreciation
- Accounting for Inventory
- Accounting for Notes and Interest
- Prepare records and financial statements related to a business organized as a partnership

COOPERATIVE EDUCATION (1 or 2 credits, Gr. 12) 1 to 4 hours release time. This is an organized program offered for seniors to enable them to gain firsthand employment experience in the following occupational areas: vocational agriculture, marketing education, office education, trade and industrial and occupational food service. Release time for part of the student's class schedule is provided to enhance occupational opportunities. Students must also take a coordinated related class in the area of their cooperative education experience and must provide their own transportation to and from the employment site. **Prerequisite:** None **Recommendation:** Students must apply during the spring of their junior year and meet program requirements stated in the Board policy. Special circumstances may be considered.

COOPERATIVE EDUCATION GUIDELINES: Students may be enrolled in a cooperative education program following consultation with counselors and program coordinator, provided the student will meet all requirements for graduation and provided suitable job placement can be secured by the student or program coordinator, which is commensurate with the student's chosen career objective. Students enrolled in the cooperative education program shall be limited to a maximum of four (4) 1-hour class periods per day for a maximum of 2 credit hours.

1. Students enrolled in the cooperative education program are required to be in a related class.
2. Students shall file a written application of admission to the cooperative education program following completion of the interview process with the cooperative education coordinator and upon written approval by parents or guardian.
3. Periodic progress reports and evaluation of the student shall be made jointly by the respective work supervisor and cooperative education program coordinator.
4. In order to fulfill State requirements for high school credit in the cooperative education program, students must work 10 clock hours per week for 0.5 unit of credit per semester and/or, 20 or more hours weekly of off-campus work for one unit of credit per semester. No more than two units of credit may be awarded during any school year for the off-campus experience.
5. Students will submit weekly, written assignments that document their work experience as well as assess specific learning objectives.
6. Students may receive pay for their services during the cooperative education experience.

PRACTICAL ARTS:
FAMILY AND CONSUMER SCIENCES

CHILD DEVELOPMENT (0.5 credit, Gr. 9-12) This is a study of the prenatal growth and development and the postnatal care of children. You will learn about children's physical, mental, emotional, and social growth and development, as well as their care and guidance. Observation and actual experience with children and their parents are an integral part of this instruction. Parenting skills concerning the needs of babies and young children will be explored. You will also study the causes and effects of child abuse, the special needs of certain children, and factors to consider when choosing child care facilities. The Pregnancy Profile project is completed during this course. **Homework:** occasionally **Prerequisite:** None

Competencies/Objectives:

- Assuming leadership roles as responsible family members and citizens
- Describing diverse roles in parenting
- Analyzing health concerns and needs during prenatal development
- Explaining developmental stages
- Justifying interaction choices
- Distinguishing health concerns at developmental stages
- Identifying guidance for creating safe environment
- Comparing child care options
- Researching key careers

FAMILY LIVING AND PARENTHOOD (0.5 credit, Gr. 9-12) Do you want to know yourself better? This course will provide insight into individuality and personality development. It will help you to better understand your feelings, attitudes, and priorities. Study includes family and peer communication skills that help to deal with conflict and crisis. Important teen decisions, such as drugs, alcohol, and early pregnancies are discussed. Establishing and maintaining relations; preparation for marriage, parenthood, and the various stages of family living from birth to aging will be studied. The RealCare Baby project is completed during this course, which means you will take a baby simulator home to care for!
Homework: occasionally **Prerequisite:** None

Competencies/Objectives:

- Assuming leadership roles as responsible family members and citizens
- Developing a positive self-concept
- Demonstrate effective communication skills among family, peers, and others
- Explaining the progression of relationships and families
- Exploring family life issues with a diverse society
- Making responsible parenting decisions
- Influencing change in environments
- Researching key careers

TEXTILES AND APPAREL (0.5 credit, Gr. 9-12) You will study the way you can coordinate clothing and mix and match your clothes to extend your wardrobe. This course will include study of clothing design as well as selection. The choices you make as a consumer affect your family as well as textile industry. You will find out why. You will better able to care for your clothes by understanding the way different textiles perform. In class, you will sew one or more garments using the sewing machine. Material will be needed for your own projects. **Homework:** occasionally **Prerequisite:** None. Offered every other year, rotating with Housing and Interior Design.

Competencies/Objectives:

- Recognizing functions of dress
- Differentiating clothing for multiple roles
- Recognizing wardrobe needs for multiple roles
- Identifying consumer protection regulations
- Preparing a clothing budget
- Evaluating care methods of textile products
- Describing alteration techniques
- Comparing quality and features of construction equipment and aids
- Selecting patterns with specific construction techniques
- Identifying types of small businesses
- Meeting the needs of the special population
- Recognizing careers in clothing and textiles

NUTRITION AND WELLNESS (0.5 credit, Gr. 9-12) In this course, you will study the relationship of nutrition to individual health and well-being. Emphasis is given to the study of basic food groups, food handling, safety and sanitation, and food buying practices, including cost saving suggestions. You will plan and prepare menus to meet individual and family food needs and patterns of living. There will be several types of hand-on food experiences. **Homework:** occasionally **Prerequisite:** None

Competencies/Objectives:

- Assuming leadership roles as responsible family members and citizens
- Appraising influences on personal food choices
- Comprehending nutrition principles
- Recognizing relationships between nutrition and wellness
- Managing resources to promote good health
- Developing food preparation skills
- Developing social competence
- Influencing change in environment

HOUSING AND INTERIOR DESIGN (0.5 credit, Gr. 9-12) An introduction to the applications of textile and design principles of selecting, decorating, and furnishing the home. Students will become familiar with terminology, trends, material, problems, and solutions. **Homework:** occasionally **Prerequisite:** None. Offered every other year, rotating with Textiles and Apparel.

Competencies/Objectives:

- Assuming leadership roles as responsible family members and citizens
- Choosing a living environment
- Securing a living environment
- Creating a living environment
- Maintaining the living environment
- Influencing change in environments
- Researching key careers

CULINARY ARTS/PROSTART (2 credits, Gr. 11-12) This is an occupational course that introduces the student to the food service industry. It reviews the various types of occupations in the food industry along with the career and job opportunities available to the student. An overview of the industry methods of operation and special skills required will be studied. Students will work in the classroom and in the laboratory. Time will also be devoted to job seeking skills and career planning. **Homework:** occasionally **Prerequisite:** None

Competencies/Objectives:

- Personal qualities and skills
- Long-term work qualities and skills
- Successful customer relations
- Kitchen basics
- Food service equipment
- Breakfast foods and sandwiches
- Fruits and vegetables
- Salads and garnishes
- Business math
- Controlling food service costs

HOSPITALITY AND TOURISM MANGEMENT (HTMP I) (1 credit, Gr. 11-12) This course is an occupational course with emphasis placed on learning tasks, knowledge and skills needed by anyone wishing to build a career in customer service and the hospitality and tourism industry. **Homework:** occasionally **Prerequisite:** None

Competencies/Objectives:

- Introduction to careers
- Hospitality soft skills
- Operational Areas
- Sales and Marketing
- Safety and security
- Performing Entry-and Mid-Level Duties

FOODS COOPERATIVE EDUCATION (1 or 2 credits, Gr. 12) 1 to 4 hours release time. This is an organized program offered for seniors to enable them to gain firsthand employment experience in the following occupational areas: vocational agriculture, marketing education, office education, trade and industrial and occupational food service. Release time for part of the student's class schedule is provided to enhance occupational opportunities. Students must also take a coordinated related class in the area of their cooperative education experience and must provide their own transportation to and from the employment site. **Prerequisite:** None **Recommendation:** Students must apply during the spring of their junior year and meet program requirements stated in the Board policy. Special circumstances may be considered.

COOPERATIVE EDUCATION GUIDELINES: Students may be enrolled in a cooperative education program following consultation with counselors and program coordinator, provided the student will meet all requirements for graduation and provided suitable job placement can be secured by the student or program coordinator, which is commensurate with the student's chosen career objective. Students enrolled in the cooperative education program shall be limited to a maximum of four (4) 1-hour class periods per day for a maximum of 2 credit hours.

1. Students enrolled in the cooperative education program are required to be in a related class.
2. Students shall file a written application of admission to the cooperative education program following completion of the interview process with the cooperative education coordinator and upon written approval by parents or guardian.
3. Periodic progress reports and evaluation of the student shall be made jointly by the respective work supervisor and cooperative education program coordinator.
4. In order to fulfill State requirements for high school credit in the cooperative education program, students must work 10 clock hours per week for 0.5 unit of credit per semester and/or, 20 or more hours weekly of off-campus work for one unit of credit per semester. No more than two units of credit may be awarded during any school year for the off-campus experience.
5. Students will submit weekly, written assignments that document their work experience as well as assess specific learning objectives.
6. Students may receive pay for their services during the cooperative education experience.

PRACTICAL ARTS:
TEACHING PROFESSIONS

TEACHING PROFESSIONS (6 credits, Gr. 11-12) Career Pathways (3 credits, Gr. 12)
PARAPROFESSIONAL CERTIFICATION, CDA/YDC CERTIFICATION, DUAL CREDIT, & NCMC ARTICULATION.
The Teaching Professions & Career Pathways programs prepare high school students for various careers working with children. Through in-depth academic studies in child growth and development and foundations of teaching instruction, students gain a solid understanding of the whole child and effective teaching practices. Students also receive CPR/AED/First Aid training and certification. Both are occupational training programs for students interested in working in the field of education. Students enrolled in these programs may plan to become a nanny, infant/toddler/preschool teachers, kindergarten/elementary/middle school teachers. Students may also plan to become social workers, child psychologists, plan to work as recreational directors in a before/after school program, or own and operate their own childcare business. Students enrolled in the programs will work to earn their Paraprofessional Certification and/or Child Development Associate, CDA, credential, (national credential or Youth Development Credential (state of Missouri credential).
Students have the option of enrolling in the following dual credit courses: Participation in Teaching, Intro to Education, and Educational Psychology through Missouri Western State University. College Articulation Credits: Upon successful completion of 2 years of Teaching Professions, students may be eligible for college credits at North Central Missouri College at Trenton. For more information, contact the Teaching Professions instructor or director at Northwest Technical School.

Teaching Professions (2 years):
Students will take part in the CDA/YDC process

- Develop a professional resource file
- Prepare for the CDA/TSA written assessment
- Prepare for the Professional Development Specialist Observation
- Prepare for the oral situational interview
- Distribute/collect parent opinion questionnaires

Major units of study-careers in CDA/YDC

- Planning a safe, healthy learning environment
- Advancing children's physical and intellectual development
- Supporting children's social and emotional development
- Building productive relationships with families
- Maintaining professionalism
- Observing and recording children's behavior
- Understanding principles of child development and learning

** Students in this program are placed in internships in the Maryville RII School District or in their home school district to earn the 480 required hours of observation of children.

Career Pathways (1 year):

- Develop a professional resource file
- Prepare for the Paraprofessional or Education Fundamentals Assessment

** Students in this program are placed in internships in the Maryville RII School District to earn the 240 required hours of observation of children.

Major Units of Study

- Teachers of Tomorrow
- The School
- The Learner
- The Teacher

PRACTICAL ARTS:
HEALTH SCIENCE TECHNOLOGY

Today's students have a high interest in health science-related careers. Students who choose the health science career path are not only preparing for a position of humanitarian contribution but are also choosing a high demand/high wage career. Health Science Technology I is a college preparatory program for all medical and health-related fields. Courses in health, anatomy and physiology, and microbiology are helpful choosing a health science career path. Strong writing, spelling, math skills and study habits are recommended. This 3-hour block class involves classroom, lab, and job shadowing experiences. Students obtain a C.N.A. certification by meeting 175 hours of classroom and clinical hours. Involvement with Skills USA is highly encouraged. **Students enrolled in Health Science Technology I will receive 1 science embedded credit.**

HEALTH SCIENCE TECHNOLOGY I (3 credit, Gr. 11-12) This course provides the basic knowledge of body parts, systems, and how the body works as a whole. It will, therefore, provide the essential foundation necessary in order to further correlate and understand health and disease processes. An introduction to medical terminology will address word parts, correct spelling and commonly used medical terms in order to be competent health professionals.

Students will identify numerous health pathways and entities. The course will also allow students to investigate career interests. Professionalism, employability skills, and public relations aspects will be addressed. The Skills USA Framework of Work and professional development units will be included.

As part of the requirements for MO C.N.A. certification, this course will also give basic knowledge and understanding of the care of the elderly addressing their personal care needs, while applying principles of infection control, body mechanics, safety, and nutrition. Students will learn observation and assessment skills during the 100 hours of on-the-job training (clinical rotation) in a Long-Term Care Center.
Homework: 3-5 hours per week **Prerequisite:** Intermediate computer skills, Biology
Competencies/Objectives:

- Recognize concepts of the body as a whole and as systems
  - Apply concepts of the body and its systems to health care delivery
  - Research common diseases and disorders for each of the 11 body systems
- Demonstrate knowledge of employability skills
  - State and describe personal, technical and workplace skills essential to being a good health care team member as embodied in the SkillsUSA Framework
  - Utilize communication and observation skills – written and practicum
  - Explore and apply the principles of effective leadership
- Explore health care interests
  - Demonstrate the necessary skills for CPR and first aid certification
  - Participate in service-learning projects
  - Research the latest medical and nursing trends as well as holistic medicine
  - Understand the health care delivery systems and the use of technology
  - Apply principles of basic medical mathematics
- Perform special procedures in the clinical area per C.N.A. certification requirements to include but not limited to the following:
  - Administer personal care to patients/residents with an emphasis on the elderly
  - Perform basic restorative care
  - Demonstrate leadership skills
  - Apply the principles of proper nutrition to self and patients
  - Demonstrate knowledge of basic care to patients living with dementia

COOPERATIVE EDUCATION (1-2 credits, Gr. 12) ***See Cooperative Education under Practical Arts, Business*** Prerequisite: None Recommendation: Students must apply during the spring of their junior year and meet program requirements stated in Board Policy.

PRACTICAL ARTS: INDUSTRIAL TECHNOLOGY

COLLISION REPAIR (3 credits, Gr. 11-12) The Collision Repair Technology Program is designed to develop job entry-level skills and to prepare students for continued training in related fields. Emphasis will be given to safety, identification and use of hand and power tools, body and frame construction and repair, welding of metals and thermo plastics, metal straightening, product and procedure for refinishing and management skills including estimating and part procurement. Students will explore career opportunities in automotive industry and related fields and develop leadership through SkillsUSA activities. Pre-employment training will be stressed in all activities. **Homework:** 1-2 hours per week **Prerequisite:** None **Recommendation:** Art, Algebra 1, Material Science. **Note: ½ credit of embedded technical math is earned for each three-block year of Collision Repair.**

Competencies/Objectives:

- Demonstrate skills in leadership, communication, management and list opportunities in the collision repair field
- Identify the basic construction of vehicles
- Read a metric and fractional inch ruler and solve problems involving volume and ratios
- Use of hand and power tools/equipment and use safe practices in raising and supporting vehicles
- Demonstrate approved welds and cutting procedures for collision repair
- Analyze and repair sheet metal damage and composite plastic damages
- Remove and replace cosmetic, bolt-on and weld-on panels, bumpers and absorbers
- Identify and maintain refinishing equipment; apply corrosion protection; perform proper spraying techniques and equipment maintenance; mix and apply appropriate primer/sealant, topcoats and clear coats
- Remove and install fixed and moveable glass, moldings, trim and interior components
- Remove and install mechanical, electrical and hydraulic systems/components
- Analyze unibody alignment utilizing universal frame machine; full-frame body utilizing self-centering frame gauges; body damage with trim gauge and tape measure; perform repairs on unibody and full-frame vehicles with mechanical and hydraulic repair equipment
- Perform major component and section replacement

AUTOMOTIVE TECHNOLOGY (3 credits, Gr. 11-12) Automotive Service Technology is a program designed to develop entry level job skills and proficiency of young men and women who wish to earn a living as an automotive technician or through employment in other related occupations. The automotive technician uses a variety of hand and power tools. Instruction will involve class work, demonstrations and actual hands-on laboratory work. It is a course designed for adult and/or secondary students with a one- or two-year option, who intend to make Automotive Technology their chosen occupation. **Homework:** 1-2 hours per week **Prerequisite:** None **Recommendation:** Art, Algebra 1, Material Science. **Note: ½ credit of embedded technical math and ½ credit of technical science is earned for each three-block year of Automotive Technology.**

Competencies/Objectives:

- Safety, shop operation and components and careers
- General electrical, charging, starting, lighting system diagnosis; battery diagnosis and service and gauges and electrical accessories
- Ignition, Fuel and Exhaust and Emission Control systems
- General Engine Diagnosis-remove and replace; cylinder head and valve train, short block, lubrication and cooling, four-wheel-drive diagnosis and repair
- Steering, front and rear suspension, tire and wheel alignment diagnosis and repair
- Hydraulic, drum, disc, and power assist brakes diagnosis and repair
- Clutch, manual transmission/transaxle, drive shaft, CV-Joint, FWD Bearings, Deferential Diagnosis and Repair
- In-car and Out-of-vehicle transmission and transaxle diagnosis and maintenance
- Air conditioning and heating systems

BUILDING TRADES (3 credits, Gr. 11-12) Electricians, carpenters, and HVAC technicians help fill the ranks of what is known as the Building Construction Trades. The Building Trades Program covers units of technical knowledge, hand tools, power tools and practical experiences as related to the care and use of hand and power tools. The course offers in-depth instruction in three main area (electricity, carpentry and HVAC). The course will provide for classroom presentation, shop work, and practical experience application accomplished by completing the class project, a single dwelling house. For students who meet pre-determined criteria, the course is designed to provide entry-level skills for acceptance in the Construction Apprenticeship Tech Prep Consortium. The hands-on work will begin at the foundation and end with the finishing touches on a house ready for occupancy built by students. **Homework:** All bookwork done in class. **Prerequisite:** None **Recommendation:** Algebra 1 **Note: ½ credit of embedded technical math is earned for each three-block year of Building Trades.**

Competencies/Objectives:

- Demonstrate occupational safety habits in all laboratory activities
- Develop and demonstrate the necessary skills in Building Trades to qualify for employment in the area
- Be acquainted with the many related construction crafts
- Demonstrate pride in the work and an appreciation for craftsmanship in a finished product
- Demonstrate own ability to solve problems
- Demonstrate an understanding of labor and management, through on-site activities
- Demonstrate the development of leadership qualities
- Demonstrate ability to cooperate with fellow workers in the occupational area involved
- Demonstrate individual initiative and responsibilities as a worker

WELDING AND MACHINE SHOP TECHNOLOGY (3 credits, Gr. 11-12) The Welding and Machine Tool Program is a two-year (1,050 clock hours) program of instruction designed to impart skill and knowledge of Welding and Machines. The welding program ultimately leads to an opportunity for American Welding Society Certification, D1.1 Code. The Machine Tool portion of the course will augment the welding program and teach students the fundamentals of machine tool technology including precision measuring and related mathematics. The Welding/Machine Tool course is offered to secondary and post-secondary students and consists of classroom instruction, lab practice and projects. All students will practice welding and machine shop principles in the lab under the direct supervision of a skilled and competent instructor. The theory portion of the course requires reading, research, lectures, and classroom demonstrations with the use of visual and audio/visual aids. **Homework:** 1-2 hours per week **Prerequisite:** None **Recommendation:** Algebra 1 **Note: ½ credit of embedded technical math is earned for each three-block year of Welding and Machine Shop Technology.**

Competencies/Objectives:

- Describe the safety rules and regulations found in a welding/machine shop
- Pass a guided bench test on samples using all four types of welding: smaw, mig, tig, and oxyacetylene
- Demonstrate the skills in oxyacetylene welding, brazing, and cutting
- Demonstrate the skills in SMAW, GMAW, and GTAW in flat, vertical, and overhead positions, fillet and v-groove welds
- Interpret and write welding symbols
- Read and interpret blueprints
- Demonstrate the skill needed to operate machine shop equipment (mill, lathe, surface grinder, drill press and band saw)
- Demonstrate skills in leadership, communication and management

COOPERATIVE EDUCATION (1-2 credits, Gr. 12) ***See Cooperative Education under Practical Arts, Business*** Prerequisite: None Recommendation: Students must apply during the spring of their junior year and meet program requirements stated in Board Policy.

PRACTICAL ARTS: AGRICULTURE

AGRICULTURAL SCIENCE I (1 credit, Gr. 9-12) Designed for non-rural and rural students, this introductory course in agriculture gives special attention to leadership, FFA, Supervised Agricultural Experience (SAE) Programs, animal science, and agricultural mechanics/construction. Students will have opportunities to explore potential agricultural careers and consider their own career choices, develop personal goals, and develop leadership abilities through the FFA and its opportunities for the student. **Homework** occasional **Prerequisite:** None Competencies/Objectives:

- Demonstrate effective leadership characteristics and knowledge of leadership style
- Identify key components of the National FFA Organization and its related opportunities in agriculture
- Investigate career opportunities in the agriculture, food, fiber, and natural resources industry
- Create and manage finances effectively through a Supervised Agricultural Experience (SAE) Program using the Missouri Agricultural Record Book for secondary students
- Describe the basic components of animal science, such as nutrition and reproduction, as related to beef, swine, sheep, dairy, poultry, equine, and specialty animals
- Describe and evaluate animal products and their uses
- Demonstrate proper safety procedures for operating machinery, equipment, and/or tools within the agriculture shop
- Demonstrate basic principles of woodworking and finishing, arc welding, and oxy-acetylene cutting

AGRICULTURAL SCIENCE II (1 credit, Gr. 10-12) With an emphasis on leadership, crop science, soils, and agricultural mechanics/construction, this second-year introductory course in agriculture further develops students' skills in various facets of the agriculture industry. Public speaking, parliamentary procedure and careers related to the agriculture, food, fiber, and natural resource industry are also addresses in this course. **Homework:** occasional **Prerequisite:** Ag Science I
Competencies/Objectives:

- Demonstrate effective communication and presentation skills
- Demonstrate the process for identifying and securing careers, such as resumes and interview skills
- Analyze and evaluate the Supervised Agricultural Experience (SAE) Program
- Describe the basics of plant science including growth, development and plant processes
- Describe factors of crop science such as crop production practices and crop uses
- Determine the importance of soil, soil formation factors, and soil management practices
- Demonstrate knowledge of forest management and the importance of forest products
- Demonstrate proper safety procedures for operating; machinery, equipment, and/or tools within the agriculture shop
- Fabricate projects utilizing proper procedures for arc and oxy-acetylene welding, woodworking, and painting

AGRICULTURAL STRUCTURES (1 credit, Gr. 11-12) Building construction, concrete, electricity, plumbing, and fencing are all areas addressed in Agricultural Structures. This advanced level course will examine safety in the shop while designing and fabricating projects. Creating building plans, lists and bill of materials will also be examined in the course. **Homework:** occasional **Prerequisite:** Ag Science I and II. This class is offered every other year, rotates with Agricultural Structures. **Note: Lab fees apply for cost of projects and expendable supplies. The projects, when completed and fully paid, are the property of the student.**

Competencies/Objectives:

- Demonstrate proper safety procedures for operating machinery, equipment, and/or tools within the agriculture shop.
- Demonstrate the necessary skills for farmstead planning and building construction.
- Design building plans, including a list and bill of materials, as well as the construction design for the proposed project plans
- Demonstrate the necessary skills and procedures for ordering, preparing, and pouring concrete
- Demonstrate proper practices for plumbing and identify methods for upkeep of pipes
- Describe techniques for building and mending fences
- Analyze and evaluate the Supervised Agricultural Experience (SAE) Program using the Missouri Agricultural Record Book for secondary students

AGRICULTURAL POWER (0.5 credit, Gr. 11-12) Instruction will include: principles of small gasoline engines, overhaul and troubleshooting and principles of electricity, wiring and electric motors. **Homework:** occasional **Prerequisite:** Ag Science I and II.
Competencies/Objectives:

- Demonstrate proper safety procedures for operating machinery, equipment, and/or tools within the agriculture shop.
- Design building plans, including a list and bill of materials, as well as the construction design for the proposed project plans
- Explain the principles of operation of various engines
- Identify and utilize the various tools necessary when working with small gasoline engines and electric motors
- Demonstrate proper practices when dealing with electricity and wiring
- Utilize a service manual when dealing with an engine/motor
- Analyze and evaluate the Supervised Agricultural Experience (SAE) Program using the Missouri Agricultural Record Book for secondary students

ANIMAL SCIENCE (1 credit, Gr. 11-12) Animal nutrition, reproduction, genetics, health, and management are all addressed in Animal Science. This advanced level course will examine selection and management of animals, in addition to animal husbandry practices. Marketing and feeding of animals will also be examined in the course. **Homework:** occasional **Prerequisite:** Ag Science I and II. **Dual Credit course through Missouri State University.**
Competencies/Objectives:

- Identify and demonstrate the importance of maintaining a properly balanced nutritional diet for animals in different stages of their lives
- Describe the importance of genetics and its effects on animals and the agricultural industry
- Identify the importance of animal health and methods to maintain animal health
- Discuss current and future issues relating to animal agriculture
- Identify factors involved in livestock and poultry production, as well as small animals
- Develop a feeding program based on different animal needs
- Analyze and evaluate the Supervised Agricultural Experience (SAE) Program using the Missouri Agricultural Record Book for secondary students

GREENHOUSE OPERATION AND MANAGEMENT (1 credit, Gr. 11-12) Greenhouse Operation and Management is an advanced course emphasizing the horticulture industry. Plant growth and development, propagation, and plant environments are all topics stressed in this course. The course also includes the study of pesticides and how they are used. Time is spent in the greenhouse growing poinsettias during the fall semester and bedding and vegetable plants during the spring semester. Marketing and sales techniques of greenhouse crops are also included, as well as basic plant identification, plant care, bulb culture and care, and fruit and vegetable gardening. **Homework:** occasional **Prerequisite:** Ag Science I and II. Offered every other year, rotating with Landscape and Turf Management.
Competencies/Objectives:

- Describe the differences in greenhouse structures, including the interior and exterior layouts, climate control factors, and type of greenhouse business operation.
- Identify the effects of environmental controls, pests, diseases and disorders, and how to safely control them in the green house environment.
- Demonstrate proper techniques for plant care, such as fertilizing, watering, and preparing plants for sale
- Start plants by sexual and asexual propagation methods
- Describe different marketing strategies for selling greenhouse crops
- Investigate career opportunities within the horticulture industry
- Analyze and evaluate the Supervised Agricultural Experience (SAE) Program using the Missouri Agricultural Record Book for secondary students

AG COOPERATIVE EDUCATION (1-2 credits, Gr. 12) ***See Cooperative Education under Practical Arts, Business*** Prerequisite: None Recommendation: Students must apply during the spring of their junior year and meet program requirements stated in Board Policy.

LANDSCAPE AND TURF MANAGEMENT (1 credit, Gr. 11-12) Landscape and turf management is an advanced course emphasizing the horticulture industry. The use of plants to improve the environment through principles of landscape and turf design and management are focused on throughout the course. Time will also be spent on plant use and identification for the landscape. Career exploration, economic importance, and application of ornamental landscaping in our society are emphasized in the course. **Homework:** occasional **Prerequisite:** Ag Science I and II. Offered every other year, rotating with Greenhouse Operation and Management.
Competencies/Objectives:

- Explain the importance of the landscaping and turf grass industries, as well as potential career opportunities involved within the industry
- Describe the principles behind plant growth and plant selection for the landscape
- Identify trees, shrubs, ground covers, turf grasses, and various other plants that could be used in a landscape
- Demonstrate proper techniques for plant care, such as fertilizing, watering, and applying pesticides safely in the landscape
- Demonstrate how to install, maintain, and renovate lawns and other turf grass areas
- Create a landscape design using the principles of landscape design, site analysis, base maps with design symbols, and cost estimates
- Analyze and evaluate the Supervised Agricultural Experience (SAE) Program using the Missouri Agricultural Record Book for secondary students

AGRICULTURAL COMMUNICATIONS (0.5 credit, Gr. 11-12) Ag Communications is designed to prepare students who will be entering agricultural related careers, especially those that emphasize agricultural sales, biotechnology, public speaking, correspondence, and record keeping. Lessons in marketing plans, promotions, customer relations, and financial analysis are areas that will be focused on relating to the marketing of agricultural products. **Homework:** occasional **Prerequisite:** Ag Science I and II.

Competencies/Objectives:

- Describe agriculture as an industry and the career opportunities related to agricultural communications
- Demonstrate the process for locating a job, including resume, interview, and communication skills
- Create a sales presentation, using concepts of marketing plans, for an agricultural related product
- Identify methods of communication, through written and verbal, in spreading the word about agriculture
- Evaluate the effectiveness of various methods of communication
- Define entrepreneurship and its potential business opoportunities
- Analyze and evaluate the Supervised Agricultural Experience (SAE) Program using the Missouri Agricultural Record Book for secondary students

AG SALES, MARKETING & MANAGEMENT (0.5 credit, Gr. 11-12) Ag Sales, Marketing and Management is designed to prepare students who will be entering agricultural related careers, especially those that emphasize agricultural business, sales and marketing. Sales techniques, marketing plans, promotions, customer relations, and financial analysis are areas that will be focused on relating to the marketing of agricultural products. **Homework:** occasional **Prerequisite:** Ag Science I and II.

Competencies/Objectives:

- Describe agriculture as an industry and the career opportunities related to agribusiness sales, marketing, and management
- Define the basic economic principles in agribusiness
- Demonstrate the process for locating a job, including resume, interview, and communication skills
- Create a sales presentation using concepts of marketing plans, for an agricultural related product
- Identify methods of communicating with customers to better meet their sales needs
- Evaluate the effectiveness of various promotional activities
- Define entrepreneurship and its potential business opportunities
- Analyze and evaluate the Supervised Agricultural Experience (SAE) Program using the Missouri Agricultural Record Book for secondary students

CONSERVATION OF NATURAL RESOURCES (0.5 credit, Gr. 11-12) Natural resource conservation, forestry, fish and wildlife conservation and management as it relates to our society are emphasized in this course. Units of instruction will focus on conservation management systems in the county and state. Conservation laws concerning hunting, trapping, and fishing will also be studied. **Homework:** occasional **Prerequisite:** Ag Science I and II.

Competencies/Objectives:

- Identify and describe potential careers in the conservation and natural resources industry
- Evaluate the legal, moral, and ethical issues faced within conservation and natural resources
- Describe the concepts involved in forest management, including tree identification, improving forest production and habitat management.
- Describe the recreational, social, aesthetic, scientific, and educational values of fish and wildlife resources
- Assess management practices that improve fish and wildlife populations and habitats
- Outline the life histories of specific fish and wildlife species
- Describe fish and wildlife regulations, emphasizing how regulations are made and enforced in Missouri
- Analyze and evaluate the Supervised Agricultural Experience (SAE) Program using the Missouri Agricultural Record Book for secondary stud