

**High School  
Course Catalog  
2021-2022**

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## Sherwood High School Course Catalog 2021-2022

This catalog contains the class offerings planned for the 2020-2021 school year. Courses may be added or dropped as the scheduling situation changes. Each class has a maximum enrollment and may not be available to every student who wants it. It is always good to have a few alternate choices in mind in case the course you want is full or not available.

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## Graduation Requirements

In order to graduate from Sherwood High School, students must meet all of Sherwood Cass R-VIII School District's and the Missouri State Board of Education requirements. In addition to earning the required **25 credits** and passing specific required classes, graduates **must pass both the U.S. and Missouri Constitution tests, Civics test** and the **required EOC tests**. **Required EOC tests are:** Biology I, Language Arts II, American Government, Algebra I (Algebra II required if Algebra I taken as an 8<sup>th</sup> grade student).

<i>Credit Area</i>	<i>Credits Required</i>	<i>Specific Requirements</i>	<i>College-bound Recommendations</i>
English Language Arts	4	Language Arts I, Language Arts II <u>and</u> either Language Arts III or approved English course are required.	* Dual credit English (Comp I & II) * Weighted classes * College Prep English
Mathematics	3	(College-bound students should complete coursework at least through Algebra II, 4 total credits recommended.)	* 4 recommended * Completion of Alg II * Consider dual credit and weighted options
Science	3	Physical Science and Biology I are required.	* Weighted classes & laboratory science classes
Social Studies	3	American History <u>and</u> American Government are required. * <b>Must pass MO and U.S. Constitution tests</b>	* Weighted classes * Consider dual credit options
Fine Arts	1	(Art, Vocal or Instrumental Music courses)	* Consider dual credit Fine Arts classes
Practical Arts	1	(Agriculture, Business and Technology, or Family and Consumer Science courses)	
Physical Education	1	Only <u>one</u> class per semester is allowed.	
Health Education	.5		
Computer Technology	.5	Computer Business Applications I fulfills this requirement.	
Personal Finance	.5		
Electives	7.5		2 years of foreign languages recommended
<b><i>Total</i></b>	<b><i>25</i></b>		

### Graduation

Seniors must have completed **ALL** graduation requirements to participate in the graduation ceremony and related activities. **ALL** credit recovery courses must be completed **3** weeks prior to graduation.

### Classification by Credits:

Students must have earned the following credits for grade level classification by the beginning of each school year. Credits will be reviewed at the end of the semester for students who had been previously reclassified to determine if their grade level should change.

**Sophomore**—6 credits

**Junior**—12 credits

**Senior**—18

## Academic Extras

### Weighted Classes

Many upper-level classes are designated as weighted classes. They are typically the last course taken in a subject area. These classes are taught as advanced courses and require more preparation for class, more work, and/or work of a higher quality. Weighted refers to the way grade-point averages are figured. In regular classes  $A = 4$  points,  $B = 3$  points,  $C = 2$  points,  $D = 1$  point and  $F = 0$  points. In weighted classes  $A = 5$  points,  $B = 4$  points,  $C = 3$  points,  $D = 1$  point and  $F = 0$  points. This gives a weighted class more influence on students' grade-point averages and rewards students who are successful in the most challenging classes that Sherwood offers. If a student earns an  $A$  in a weighted class and has  $A$ 's in all other classes, that student's GPA will be greater than 4.0.

*TIP: Challenge yourself by taking more than what is required and taking the most rigorous courses that you can handle. You will be more qualified for scholarships and other honors, better able to handle post-secondary education, and better prepared for the workforce.*

### Dual-Credit Classes

Sherwood High School offers several dual-credit class options. Each dual-credit course is a weighted course, as described above. Dual-credit classes are advanced courses in which the student is enrolled for high school credit and may also enroll for college credit through State Fair Community College or an approved participating college/university. The course counts for high school credit and college credit at the same time **if** the student chooses to pay college tuition and take the ACT exam on their own (an Accuplacer test may be acceptable also) prior to enrolling in the course. If a dual credit class is taught by a Sherwood instructor, the student has the option of taking the class solely for high school credit or for both high school and college credit. The class is rigorous and is taught on a college level. Dual-credit classes give students a head start on earning college credit while they are still in high school and at a reduced rate. The college credit is transferable to many other colleges and universities. **Sherwood does not guarantee** that any institution the student will attend will automatically accept the credit. **Students should check with the institution that they plan to attend to see if the credit will transfer.** Teachers of dual-credit classes hold a master's degree in the subject area taught and are approved by the college or university. All students planning to take dual credit courses must have a qualifying score on the college entrance exam, qualifying GPA, and be approved by school personnel in order to enroll.

\* Please note: If a student chooses to take a dual credit course for high school credit ONLY, they are still responsible for purchasing the textbook that those taking it for college credit have to purchase.

### Honors Courses

Honors courses are faster paced courses than regular courses. These courses will be as rigorous as dual credit courses yet are only high school credit. These courses are designed to prepare sophomores and juniors for fast paced rigorous content later in their high school programs. Entry into an honors courses is determined by teacher and administrator approval. Also, students must demonstrate academic excellence in the content area prior to acceptance. Excellence is determined by the previous four semesters in the content area. NO grades below an 80% are allowed. Upon acceptance, honors students may be given a summer packet to complete. The packet must be completed and turned in by the 2<sup>nd</sup> day of classes for final acceptance. If not complete, the student is removed from the course and transferred into the non-honors course.

**Online Courses**

The Missouri legislature passed Senate Bill 603 in the fall of 2018 which allows students to take online courses approved by DESE. If you wish to take online courses in place of regular high school courses, it must be approved by the administration. If administration finds good cause as to why the online course is not in the best interest of the student, parents are able to appeal the decision to the Board of Education, and then to DESE if needed. We cannot possibly list all of the online courses which are available, but if this is something you feel would be in your best interest, you may contact Mr. Himes. If you would like more information on online education opportunities you may visit [www.mocap.mo.gov](http://www.mocap.mo.gov).

## **Career Paths & Career Clusters**

Missouri has identified six Career Paths as a way to help students become aware of and explore careers in a logical and meaningful way. Missouri also uses 16 Career Clusters as a way of organizing occupations and careers. The Career Clusters include all occupations, even those not usually found in career and technical education. Students identify the Career Path and Career Cluster that best fits their interests and abilities as a framework for educational planning in high school and through post-secondary education. As students' knowledge of themselves and career options expands, their chosen Career Paths and/or Career Clusters may change.

### **Industrial & Engineering Technology**

- Science, Technology, Engineering and Mathematics
- Architecture and Construction
- Manufacturing
- Transportation, Distribution and Logistics

### **Human Services**

- Human Services
- Hospitality and Tourism
- Government and Public Administration
- Law, Public Safety, Corrections and Security
- Education and Training

### **Natural Resources Agriculture**

- Agriculture, Food and Natural Resources

### **Business, Management & Technology**

- Information Technology
- Marketing, Sales and Service
- Finance
- Business, Management and Administration

### **Arts & Communication**

- Arts, A/V Technology and Communications

### **Health Services**

- Health Science

## Career Paths

Missouri has identified six Career Paths as a way to help elementary and middle school students become aware of and explore careers in a logical and meaningful way.

## Career Clusters

Missouri uses 16 Career Clusters as a way of organizing occupations and careers to assist educators in tailoring rigorous coursework and related activities for all students. The Career Clusters include all occupations, even those not usually found in career and technical education. Career Clusters may be used beginning in grades 7, 8 or 9, and can continue as a framework for educational planning through postsecondary education.

## Career Pathways

Occupations within a Career Cluster are further grouped according to shared commonalities such as skill sets or common roles. This grouping is called a Career Pathway. Each cluster contains two to seven Career Pathways. Career Pathways assist educators in the development of a coordinated and non-duplicative sequence of courses that identifies both secondary and postsecondary education elements; includes challenging academic and career and technical education content; and culminates in one or more of the following: technical skill proficiency, a credential, a certificate, or a degree at the secondary or postsecondary level.

## Knowledge & Skill Statements

Knowledge and skill statements represent the skills and knowledge, both academic and technical, that all students should achieve for a given career area.







## Planning for Post-Secondary Success

One way Sherwood High School assists students with career exploration and educational planning is through utilizing the Missouri Connections Program. Staff assist students as they create a Personal Plan of Study (PPOS) to serve as a guide for determining which courses students should select during enrollment. Students should also consult parents/guardians when choosing courses. All students have a login and can access Missouri Connections at any time. Parents can also have parent accounts created for them. Contact the counselor's office for more information.



## Connect to Your Future... Today!

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 7-16), their parents/guardians, guidance counselors, and educators can use the online system at no charge.

Students	Parents	Educators	Job Seekers	Career Centers
<h3>Students</h3> <p>Begin your career exploration and planning with the Missouri Connections' <b>Career Information System</b>.</p> <p><i>Register/log-in for these personalized features:</i></p> <ul style="list-style-type: none"><li>• <b>Take Career Information System assessments</b> Learn about your career interests, values, and skills.</li><li>• <b>Build a portfolio</b> Keep track of assessment scores, favorite clusters, occupations, colleges, résumés, and more!</li><li>• <b>Create your career plan and course plan</b> Review with your counselor at least once a year.</li></ul> <p>If you already have an account, log with your personal username and password</p> <p><a href="#">New Users</a></p>				
<b>Missouri Connections Training Opportunities and Registration</b>				

## Personal Plan of Study (Example)

### Sample for College Prep Studies

<i>Grade 9</i>	<i>Grade 10</i>
English Language Arts I (Honors)	English Language Arts II (Honors)
Algebra I	Geometry*
Physical Science	Biology I
American History	World History
Computer Business Applications I/Health	Accounting
Foundations of Art	Drawing/Painting
Intro to Business/Computer Apps II	Physical Education

<i>Grade 11</i>	<i>Grade 12</i>
Creative Writing, Novels	Comp. I / Comp. II, College Prep English
Algebra II	Pre-Calculus Algebra, Trigonometry
Biomedical Science	Physiology & Anatomy
American Government	Psychology
Accounting II	Business Law/Computer Apps III
German I	German II
Pers. Finance/Sculpture & Ceramics	Advanced Art Studio

*\*College-bound students who did not take Algebra I in eighth grade are allowed to take Geometry and Algebra II concurrently in grade 10. See Mathematics Flow Chart for course options following Algebra II.*

### Sample for Vocational Studies

<i>Grade 9</i>	<i>Grade 10</i>
Language Arts I	Language Arts II
Algebra IA	Algebra IB
Physical Science	Biology I
American History	World History
Agricultural Science I	Ag. Science II
Health/Computer Business Applications I	Musical Pop Culture
Women's/Men's Chorus	Physical Education

<i>Grade 11</i>	<i>Grade 12</i>
Language Arts III	Reading/Science Fiction
Geometry	Business Communications
Environmental Science	Floral Design/General Horticulture
Agricultural Structures	Advanced Animal Science
Ag. Management/Fish and Wildlife	Food Science, Ag. Business
American Government	Agricultural Construction
Personal Finance/Business Math	Body Conditioning

## Technical Training

You may want to consider attending Clinton Technical School (CTS) during your junior and senior years. Technical education provides the opportunity to develop skills and work habits needed to enter and progress in useful and productive employment. It is not just for students who are not college bound. Many of the programs lay a strong foundation for two- and four-year college programs in the same field.

Skill-specific certification is available for some courses. In addition, students can earn articulated college credit from the programs. Clinton Technical School participates in the articulated college credit programs through the Metropolitan Community Colleges (MCC) in the Kansas City area, Ozarks Technical Community College (OTC) in Springfield, State Fair Community College (SFCC) in Sedalia and State Technical College in Linn. CTS also participates with the University of Central Missouri, MCC, OTC and SFCC for dual-credit classes.

Sherwood students may choose from the following two-year programs: Auto Mechanics; Ag. Welding, Building Trades; Computer Repair and Networking; Health Occupations, and Machine Tool Technology. Sophomores will tour Clinton Technical School to get information and a firsthand look at the various programs.

A limited number of students can attend CTS classes. That means not everyone who wants to go will get to. Selection is competitive and is based on students' career plans, attendance, commitment to learning, discipline record and credits earned.

Students who may attend technical school as upperclassmen need to plan accordingly during their freshman and sophomore years. Get as many of your requirements out of the way as possible because you will only have fifth, sixth and seventh hours to schedule classes your junior and senior years. Do your best in all of your classes and compile a positive record of attendance and behavior. It is important that you not get behind in credits.

### Sample Personal Plan of Study to Include Technical School

<i>Grade 9</i>	<i>Grade 10</i>
Language Arts I	Language Arts II
Algebra I	Geometry
Physical Science	Biology I
American History	World History
Computer Applications I/Health	Body Conditioning
Ag I	Foundations of Art
Physical Education	Ag II

<i>Grade 11</i>	<i>Grade 12</i>
Language Arts III	Reading/Science Fiction
Algebra II	Ag Construction
Environmental Science	Personal Finance/Food Science
American Government	Physical Education
Building Trades I	Building Trades II
Building Trades I	Building Trades II
Building Trades I	Building Trades II

## Course Offerings by Credit Area

### English Language Arts

Language Arts I, II, III  
Honors English I, II \*  
Reading  
Science Fiction  
Mass Media  
British Literature  
American Literature  
Novels \*  
College Prep English  
Creative Writing \*  
English Composition I & II \*\*

### Mathematics

Algebra IA, IB  
Algebra I, II  
Honors Algebra II\*  
Geometry  
Integrated Math  
Statistics \*  
Trigonometry \*\*  
Pre-Calculus Algebra\*\*  
Intermediate College Algebra \*

### Science

Physical Science  
Biology I  
Environmental Science  
Zoology  
Chemistry \*  
Physiology & Anatomy \*  
STEM Research & Design\*  
PLTW Biomedical Science

### Social Studies

American History  
World History  
Sociology  
American Government  
Modern American History\*  
Modern European History \*  
Psychology \*  
Contemporary Issues  
Military History  
World Geography

### Practical Arts (Business)

Accounting I, II\*  
Business Communications  
Business Law  
Business Management \*  
Computer Business Apps II, III  
Desktop Publishing I, II  
Intro. to Business  
Intro. to Programming  
Multimedia  
Web Design  
Supervised Business Exp.

### Practical Arts (Agriculture)

Agricultural Science I, II  
Agricultural Construction  
Ag Business Sales  
Ag Systems & Technology  
Agricultural Structures  
Advanced Crop Science  
Food Science  
Floral Design  
Veterinary Science  
General Horticulture  
Supervised Agricultural Exp

### Practical Arts (PLTW)

Civil Eng. & Architecture  
Adv. Automation & Robotics  
Computer Aided Drafting &  
Design

### Physical Education

Physical Education  
Body Conditioning  
Care & Prevention of Athletic  
Injuries

### Health

Health

### Fine Arts

Foundations of Art  
Drawing & Painting  
Sculpture & Ceramics  
Advanced Art Studio  
Band  
Guitar  
Musical Pop Culture  
Mixed Choir  
Show Choir  
Concert Choir

### Computer Technology

Computer Applications I

### Personal Finance

Personal Finance

### Electives

German I, II, III, IV  
Mass Media  
Public Speaking \*\*  
Intro to Theater  
A+ Tutoring  
Cadet Teacher  
Work Study  
Technology Assistant  
Study Skills (IEP students only)

### Internship Opportunities

Technology Assistant Intern  
Public Relations Intern  
Foodservice Café Intern  
Bus Barn Intern  
Maintenance Intern

\* **Weighted course**

\*\* **Dual Credit Option**

**Students may inquire about  
online dual credit classes. Dual  
credit fees apply.**

## Courses

**Please note:** Classes that are not labeled “may be repeated for credit” may not be repeated for credit unless the student has failed the class and repeats it for credit. If a student takes a class that may not be repeated a second time, credit will not be given. It is the student’s responsibility to know what classes they have taken and not to repeat those for which they already have received credit.

### -----ENGLISH LANGUAGE ARTS-----

*Required credits: English Language Arts I, English Language Arts II  
State End-of-Course exams administered in: English Language Arts II*

#### **English Language Arts I**

Gr. 9

Prerequisite: None

1 credit

This course offers a thorough overview of the English language system: parts of speech, sentence structure, and punctuation. Students will read selections of various genres in literature, including poetry, short story, essay, drama and the novel. Students will practice and improve writing skills through short compositions.

#### **English Language Arts II**

Gr. 10

Prerequisite: Language Arts I

1 credit

Students will improve vocabulary skills by using appropriate letter-sound, structural and contextual strategies. Students will demonstrate an understanding of narrative and expository text by retelling, answering or formulating questions and thinking critically. Students will use the means for writing and the steps of the writing process.

#### **English Language Arts III**

Gr. 11, 12

Prerequisite: C- avg. in Language Arts I &amp; II

1 credit

Language Arts III is a full-year course in American literature and composition. Writing is interspersed throughout the year and includes narrative, expository, research, argument, and persuasive writing. American literature concentrates on classics as well as modern texts, nonfiction, short stories, drama, and poetry. Students should expect to do essays, presentations, and projects.

#### **Honors English I**

Gr. 9

Prerequisite: Administrative approval

1 credit, weighted

Honors English I will be a rigorous course of study that will be reading and writing intensive. Honors English will focus on critical thinking, reading and analysis of written classical texts, and the analysis and synthesis of ideas. Students will explore the writing process and compose various descriptive, narrative, argumentative, and research based writing. This course will be based on pre-approval by current testing, academic achievement, and administrative approval. **This course will also have a required summer reading assignment.**

**Honors English II**

Gr. 10

Prerequisite: A/B in Hon. English I, Admin. approval  
1 credit, weighted

Honors English II will be a rigorous course of study that will be reading and writing intensive. Honors English will focus on critical thinking, reading and analysis of written classical texts, and the analysis and synthesis of ideas. Students will explore the writing process and compose various descriptive, narrative, argumentative, and research based writing. **This course will also have a required summer reading assignment.**

**Reading**

Gr. 9, 10, 11, 12

Prerequisites: None  
.5 credit

The course aims to improve students' reading comprehension through frequent in-class readings of both fiction and non-fiction texts. Students will also engage in literary analysis and critical thinking assignments. It is highly suggested that students who are currently reading one or more levels below their current grade enroll in this class.

**Science Fiction**

Gr. 10, 11, 12

Prerequisite: None  
.5 credit

This class offers analyses of the classic themes and conflicts in the genre of Science Fiction. Through the use of short stories, films, and a novel, students will analyze common themes, connections between texts, and connections to today's society. Students will think critically about the historical events surrounding texts, notice common trends within the genre, and realize the continued relevance of Science Fiction stories within society.

**Mass Media**

Gr. 10, 11, 12

Prerequisites: B- in previous English course;  
Application/approval required for Mass Media  
1 credit (may be repeated for credit)

Students in this class are responsible for all aspects of producing the school yearbook. Students must be responsible, hard-working, motivated, reliable, mature, positive, friendly and detail-oriented. Students will also spend time outside of the school day working on the yearbook, selling ads and photographing school events in order to meet deadlines. Photography and good writing skills are a must.

**Novels**

Gr. 11, 12

Prerequisite: B+ avg. in Language Arts II or III  
1 credit, weighted

The Novel is an English Literary Analysis course designed to meet the comprehensive needs of an upperclassman, through two novels. This course occurs in a collaborative learning community where the instructor facilitates active, constructive, Language Arts-based experiences to promote positive attitudes toward reading, personal, expression, and life-long learning. The essential question for this course is: What is human nature, and how do we know? Students will explore these ideas through weekly journals and in-depth class discussions, projects/presentations, and essays. If you like reading and always wanted to be in a mind-blowing book club, this course is for you!

**British Literature**

Gr. 11, 12

Prerequisite: B or higher in previous English class  
.5 credit

British Literature is an English course that covers a variety of British literature from the classics to modern favorites. Students will focus on reading and analysis of various texts such as novels, dramas, short stories, and poetry. They will also engage in weekly journaling, discussion, and various critical thinking assignments and essays throughout the semester.

**American Literature**

Gr. 11, 12

Prerequisite: B or higher in previous English class  
.5 credit

American Literature is an English course that covers a variety of American literature from the classics to modern favorites. Students will focus on reading and analysis of various texts such as novels, dramas, short stories, and poetry. They will also engage in weekly journaling, discussion, and various critical thinking assignments and essays throughout the semester.

**Creative Writing**

Gr. 10, 11, 12

Prerequisite: B avg. in Language Arts I, II or III  
.5 credit—weighted (3.0 min. GPA)

This course explores writing as art and helps students enjoy and experiment with different forms of writing. Students will read, analyze and create works of fiction, nonfiction, drama and poetry. Throughout the semester, students will compile a portfolio of revised work. Required projects may include but are not limited to: a short story, a one-act play, poetry, and a children's story. Reading to write involves studying the history of master writers and genres as well as the craftsmanship inherent to creation. Creative writing features include consideration of audience, figurative language, cross-genre writing, performance and publication. This course provides the time, instruction and skills necessary to pursue meaningful creative writing. Since grammar and usage are not taught in this course, students who enroll should have competency in these skills.

**College Prep English**

Gr. 12

Prerequisite: Plans to attend college or trade school,  
Must be in top 20 of incoming senior class, involvement  
in at least 2 extracurricular activities  
1 credit

This course is designed for college bound seniors. Emphasis is placed on writing essays for scholarships and admission to colleges. Students will do extensive research into finding the right college fit for them. Essential college level study skills will be introduced and practiced. Students cannot use this course as their fourth English credit. Students that do not meet the prerequisites may apply for the course, however a spot is not guaranteed if prerequisites are not met.

**Composition I (Dual Credit)**

Gr. 12

Prerequisite: Lang Arts III, Novels or Creative Writing,  
3.0 GPA & min. ACT Eng. & Reading 18 or Accuplacer  
required scores, .5 credit-weighted, dual credit option

This college-level composition course covers the logic and rhetoric of expository writing. Students have the option of earning three college credit hours (Composition I) through State Fair Community College. While the college credit is optional, coursework is rigorous. For dual credit, students must pay tuition (which is approximately half the regular tuition rate). Students must take the ACT, scoring an 18 on the English and Reading sections or they may take the Accuplacer test, receiving required scores. These are the requirements of State Fair Community College. Components of this college-level course are: vocabulary study, grammar and writing, and literature reading and analysis. Students will improve composition skills in the areas of content, fluency, reflection, audience, grammar and mechanics. Students will reflect on their writing. They will hone skills in all areas of writing from prewriting to evaluation. They will use rhetoric and persuasion for various audiences. Students will use resources to gain information and increase vocabulary. **\*\* Please note: If you choose to take this course for high school credit ONLY, purchase of the course textbook is still required.**

**Composition II (Dual Credit)**  
Gr. 12

Prerequisite: Comp I  
.5 credit-weighted, dual credit option

While the college credit is optional, coursework is rigorous. This dual credit composition course is designed to provide an opportunity for the able, motivated student to develop a strong voice and a clear writing style incorporating rhetorical devices, syntactical variety, and an appropriate audience. This version of Composition concentrates on argumentation and writing in disciplines related to the humanities. In this class you will:

- 1) learn basic argumentative principles and how they function in texts;
- 2) research works of literature and analyze their rhetorical features such as common terms, genres, issues, and argumentative strategies;
- 3) write a college appropriate paper that not only delves into the topic at hand, but it adheres to college appropriate grammatical and rhetorical rules.

**\*\* Please note: If you choose to take this course for high school credit ONLY, purchase of the course textbook is still required.**



-----MATHEMATICS-----

***State End-of-Course exams administered in: Algebra IB, Algebra I and Algebra II (if Algebra I EOC taken as an 8<sup>th</sup> grade student)***

**Algebra IA**

Gr. 9

Prerequisite: None

1 credit

This course is the beginning of a two-course series designed for students to gain a foundation in algebra, geometry, statistics, probability and discrete mathematics. Topics are presented in a manner that involves students through explorations and activities using manipulatives and technology. Topics introduced in the course include manipulating variables and graphing linear equations and inequalities. Students who pass Algebra IA will take Algebra IB the following year.

**Algebra IB**

Gr. 10

Prerequisite: Algebra IA

1 credit

This course is a continuation of Algebra IA. Topics introduced in Algebra IA will be studied further. Students who pass Algebra IB will take Geometry the following year. At the conclusion of this course, students will take the End of Course assessment required by the state of Missouri.

**Algebra I**

Gr. (8), 9, 10, 11, 12

Prerequisite: None

1 credit

This is an introductory course in higher mathematics. Topics covered include solving and graphing linear equations and inequalities, properties of exponents, quadratic equations, and rational equations and functions. Eighth graders who take this course earn an elective high school credit. (The next course in high school math is Geometry. Students who earn at least an 80% for both semesters may take Honors Geometry.) This course prepares students for the required Missouri End of Course Assessment given in the spring of each year.

**Geometry**

Gr. 9, 10, 11

Prerequisite: Algebra I

1 credit

Students will gain an understanding of basic geometric figures, such as points, lines, planes, two-dimensional figures and three-dimensional figures. Students will use this basic knowledge to solve problems involving real-world situations, such as perimeter, area and volume. Students also will study four types of transformations—reflections, rotations, translations and glide reflections. Geometric proofs are developed throughout the course. Students who pass Geometry will take Algebra II the following year.

**Algebra II**

Gr. 10, 11, 12

Prerequisite: Geometry (or concurrently enrolled)

1 credit

This course begins with a review of basic topics covered in Algebra I. Students will learn how to solve higher degree equations, equations involving rational exponents and logarithmic equations, as well as applications involving these equations. Other topics to be covered are exponential functions, sequences, series, conic sections and factoring. All students taking this course that took Algebra I in the 8<sup>th</sup> grade are required to take the End of Course assessment in the spring.

**Honors Algebra II**

Gr. 10, 11, 12

Prereq: At least 80% for both semesters in Algebra I &amp; Geometry

1 credit, weighted

This course is more rigorous than Algebra II and will move at a faster pace and cover more topics. This course begins with a brief review of Algebra I topics. Students will learn how to solve higher degree equations, equations involving rational exponents and logarithmic equations, as well as applications involving these equations. We will also learn about exponential functions, sequences, series, conic sections and factoring. All students taking this course that took Algebra I in the 8<sup>th</sup> grade are required to take the End of Course assessment in the spring.

**Integrated Math**

Gr. 11, 12

Prerequisite: 2 high school math credits

1 credit

This course integrates real world applications with mathematical concepts. We will start with mental math, fractions, and measurements and work our way up to perimeter, area, and volume. Budgeting, taxes, bookkeeping, and finances will also be covered. Exploring math within professions such as construction, plumbing, electrical, agriculture, etc will be the goal of this course.

**Statistics**

Gr. 11, 12

Prerequisite: Algebra II or may take concurrently with Alg. II, receiving a grade of "B" or better for the first semester of Alg. II

.5 credit – weighted

Students will work with probability, data collection, descriptive and inferential statistics, probability, and technological tools to analyze statistics. The main focus of the course will be exploring data, planning a study, producing models using probability theory, and making statistical inferences. Students will work with statistical measures of centrality and spread, methods of data collection, methods of determining probability, binomial and normal distributions, hypothesis testing, and confidence intervals. Students will use multiple representations to present data including written descriptions, numerical statistics, formulas, and graphs. Depending on interest, this course may only be offered in an online format.

**Trigonometry (Dual Credit option)**

Gr. 11, 12

Prerequisite: Algebra II or may take concurrently with Alg. II if they receive a grade of "B" or better for the first semester of Alg. II

.5 credit—weighted

Trigonometry is designed to prepare students for physics, engineering, other technical courses and higher mathematics. Students examine trigonometric ratios, solve right triangles and use the Law of Sines and Cosines to solve other triangles and to find the areas of triangles. Emphasis is placed on polynomial, rational and trigonometric functions. Students should expect this to be a rigorous course that requires considerable preparation time outside of class

**Intermediate College Algebra**

Gr. 12

Prerequisite: Algebra II

.5 credit—weighted

Topics in Intermediate College Algebra include properties of the real number system, equations and inequalities involving absolute value, rational expressions and equations, introduction to functions, graphs of linear equations and inequalities in the plane, systems of equations in two unknowns, rational exponents and radicals, radical equations, imaginary and complex numbers, and quadratic equations. This course leads well into preparing students for Pre-Calculus Algebra.

**Pre-Calculus Algebra (Dual Credit option)**

Gr. 11, 12

Prerequisite: Algebra II or Hon. Alg II;  
3.0 cum. GPA & min. ACT math score  
of 22 for dual credit  
.5 credit—weighted, dual credit option

This is an advanced course for which students have the option of earning three college math credit hours. While the college credit is optional, coursework is rigorous. For dual credit, students must pay tuition (which is approximately half the regular tuition rate) and take the ACT college entrance exam on their own prior to beginning this class. Students who have not taken the ACT or have not scored a minimum of 22 on the math subtest by the end of the current school year must earn a qualifying score on the Accuplacer test (see high school counselor to take this test). This course is a continuation of Algebra, including such topics as linear and quadratic equations and inequalities, second degree relations and functions, systems of equations and inequalities, and exponential and logarithmic functions. Students should expect this to be a rigorous college-level course that requires considerable preparation time outside of class. NOTE: Additional course fees may apply if taking through SFCC.

-----**SCIENCE**-----

*State End-of-Course exam administered in: Biology I*

**Physical Science**

Gr. 9

Prerequisite: None

1 credit

Physical Science is an activity-oriented class designed as an introductory survey of physics and chemistry. Through a series of topics, students will learn about motion, forces, energy, heat, sound, light, electricity, magnetism and chemistry.

**Biology I**

Gr. 10, 11

Prerequisite: Physical Science

1 credit

Biology is the study of life. Biology describes characteristics, classification and behaviors of organisms, their existence and how they interact with others and their environment in which they live. This course will include units on cells, DNA, cell reproduction, genetics (Mendelian and current), cellular energy, classification, ecology, evolution and the environment. This course is a combination of lecture and labs to engage all learning types.

**Environmental Science**

Gr. 11, 12

Prerequisite: Physical Science

1 credit

In this class the physical, biological and earth sciences will be explored to see how they shape our environment. Students will identify different environmental issues by their impacts from differing viewpoints. Topics may include: Ecology, energy resources, climate change and human population. This will be a project-based class.

**Chemistry**

Gr. 10, 11, 12

Prerequisite: C avg. in Algebra I &amp; Physical Science

1 credit—weighted

Chemistry is a branch of science that deals with the composition, structure, properties, and reactions of matter. It is more of an advanced course, and it involves an integration of many of the sciences and mathematics. Topics to be covered involve matter, nomenclature, chemical reactions, chemical bonding, and acids and bases.

**Physiology & Anatomy**

Gr. 11, 12

Prerequisite: min. 3.0 GPA, B both semesters in Biology I

1 credit—weighted

Students will learn about the structures and function of the human body systems. The majority of the course covers 11 organ systems (skeletal, skin, muscles, cardiovascular, digestive, etc.) comprising human beings. The course is taught similar to a college course and will mostly be lecture format. Comparative dissections are a required part of this course to aid in the learning and understanding of some organ systems.

**Zoology**

Gr. 11, 12

Prerequisite: None

.5 credit

Zoology is the study of animals, animal life and the classification of animals. This course will focus mainly on mammals of North America. Mammals discussed in this course include endangered species, gnawing animals, hoofed mammals, unusual mammals (marsupials, moles, bats and armadillos), marine mammals and predatory animals. The course will include lectures along with projects with each unit where students will focus on the structure and life functions of animals with an emphasis on the environment in which they live.

### **STEM Research and Design**

Gr: 11, 12

Prerequisite: 2 years of Science with a passing grade of a B or better in 3 semesters or teacher approval  
.5 credit - weighted

This course will require students to participate in problem-based and project-based learning activities using science, technology, engineering skills and mathematics. Students will learn how to properly design an experiment from start to finish by creating their own experimental design using the aspects of STEM. The course will cover all areas needed to implement and execute research methods, ethics, data collection, data analysis and report writing.

### **PLTW Principles of Biomedical**

Gr. 11, 12

Prerequisite: 2 years of Science with a passing grade of a C or better in 3 semesters.  
1 credit

This year long introductory course of Project Lead the Way (PLTW) Principles of Biomedical Science allows students to use biology skills taught in previous courses to explore medicine. Students will follow a fictitious person named Anna Gracia throughout the course to determine the factors that led to her death. Topics covered in the course include: investigating a crime scene and processing evidence, diabetes, sickle anemia, DNA, heart disease, infectious diseases and human body systems. This course does require students to take an End of Course Exam given by PLTW.

-----SOCIAL STUDIES-----

**Required credits:** *American Government and American History*  
**State End-of-Course exams administered in:** *American Government*  
**Required exams:** *U.S. Constitution test and Missouri Constitution test, Civics test*

**American History**  
Gr. 9

Prerequisite: None  
1 credit

Students will study American History from Reconstruction to modern times. Students must pass both semesters of American History as a high school graduation requirement.

**World History**  
Gr. 10, 11, 12

Prerequisite: American History  
1 credit

This class traces the major events of mankind's expansion from the earliest known civilization to the present. Emphasis is placed on the world viewpoint.

**Sociology**  
Gr. 10, 11, 12

Prerequisite: American History, 2.75 GPA min  
.5 credit

Sociology is the study of human society and societal behavior focusing on groups. By studying sociology, we can gain a new perspective of ourselves and the world. This class will study the beginnings of sociology, cultural diversity, social structure, social institutions and methods of socialization.

**World Geography**  
Gr. 10, 11

Prerequisite: None  
.5 credit

This course is designed to explore the world around the themes of geography. Maps, climate and human interaction with the environment will be emphasized.

**American Government**  
Gr. 11, 12

Prerequisite: None  
1 credit

Students will learn the basics of the United States government and Constitution, as well as the Missouri government and Constitution. Students must pass this class and the Missouri and U.S. Constitution tests, which are administered in class, as high school graduation requirements.

**Military History**  
Gr. 11, 12

Prerequisite: American History  
.5 credit

This course involves exploration into the world of military and war. This class is designed to analyze, compare, classify and discover aspects of the military and war, including but not limited to strategy, weaponry, major battles, important people, and world impact. Students will theorize about military and the effects military has had on the world.

**Modern American History**  
Gr. 11, 12

Prerequisite: American History  
.5 credit—weighted (2.75 GPA required)

This class studies American History in the 20<sup>th</sup> century. The class will investigate the social, political and cultural forces in America during the modern age.

**Modern European History**

Gr. 11, 12

Prerequisite: World History & 2.5 GPA

.5 credit, weighted

This class will focus on modern European History from the 20th century until current events. The events leading to and the fighting of WWI drastically changed Europe. Some of the effects of that epic war are being felt to this day. Students will have an opportunity to learn about the events of the past century from a European perspective.

**Psychology**

Gr. 11, 12

Prerequisite: None

1 credit—weighted (3.0 GPA required)

This course examines the functioning and anatomy of the mind, individuals' behavior in society, and the abnormal behavior of individuals. It is the study of the psyche, or why we do what we do.

**Contemporary Issues**

Gr. 11, 12

Prerequisite: None

.5 credit (may be repeated for credit once)

This class focuses on current events and their influence on the social, political and historical development of the world.

-----FINE ARTS-----

-Visual Arts-

**Foundations of Art**

Gr. 9, 10, 11, 12

Prerequisite: None

1 credit

This year-long course is designed to provide students with knowledge and problem-solving techniques in relation to art production using a variety of mediums. It is a general introduction to elements of art and principles of design. Areas of study will include: art history, aesthetics, how art affects our environment, art criticism, and art production. Works produced in this course will lead to the creation of a portfolio of quality works.

**Sculpture and Ceramics**

Gr. 10, 11, 12

Prerequisite: C avg. in Foundations of Art

.5 credit

The primary goal of this course is to create awareness of possible forms sculpture can take. Students will explore various three-dimensional art forms as an expressive, communicative medium. Through readings, lectures, discussions, historical study and studio projects, students will gain knowledge of sculpture and three-dimensional materials and processes. Students will also learn proper use and care of equipment and materials. Studio projects include, but are not limited to, printmaking, clay, paper mache', mosaics, fibers, jewelry making, and stained glass. Class fees will occur.

**Drawing (1<sup>st</sup> Semester)**

Gr. 10, 11, 12

Prerequisite: C avg. in Foundations of Art

.5 credit

Throughout the semester, students will be expected to express themselves in two-dimensional art form. Emphasis is placed on design procedure and visual problem solving in a variety of styles. Students will gain knowledge by studying art history, aesthetics, art criticism and art production. Students will look at their individual strengths and weaknesses and work to improve on those characteristics. By the end of the semester, students will have tried a variety of drawing media and will have a good understanding of the elements and principles of design. Works produced in this course will lead to the creation of a portfolio of quality works.

**Painting (2<sup>nd</sup> Semester)**

Gr. 10, 11, 12

Prerequisite: C avg. in Foundations of Art

.5 credit

This semester course enhances level-one painting skills and provides opportunities for students to apply techniques in a variety of media. Students will continue to develop knowledge in art and strengthen their artistic ability and skill through drawing and painting techniques. Students also will become increasingly familiar with artistic composition and styles and art history. Works produced in this course will lead to the creation of a portfolio of quality works.

**Advanced Art Studio**

Gr. 11, 12

Prerequisite: C avg. in Foundations, Drawing or Painting

1 credit (may be repeated a second year)

This course focuses on specific studio areas, with an emphasis on upgrading skills and extending understanding of aesthetic and visual qualities. Students will create a deeper appreciation of the visual creative process, for evaluating and analyzing works of art, of their expressive content, and their historical context. Students will produce original and interpretative works of art that will lead to the creation of a portfolio of quality works.



*-Vocal Music-*

**Mixed Chorus**

Gr. 9, 10, 11, 12

Prerequisite: None

1 credit (may be repeated for credit)

Mixed Chorus is a non-auditioned performing choral group for Sherwood High School. Students in this choir will perform beginning to intermediate pieces in two to four parts. This choir is open to both men and women, and again, is non-auditioned. Students will learn basic theory and sight-reading skills and they will be tested on their knowledge regularly. Members will sing an assortment of music that might include madrigals, classical music, multicultural pieces, contemporary selections, spirituals, pop/show tunes and music in different languages. After-school concerts will be held at least twice during the year, and participation and attendance will be mandatory as well as a major part of the student's grade.

**Show Choir**

Gr. 9, 10, 11, 12

Prerequisite: Audition/Director Approval

1 credit (may be repeated for credit)

This is a small, very select group of experienced singers with advanced abilities in choral performance. A variety of choral literature is performed with an emphasis on "pop", jazz, and musical theater. The group represents the school in many performances for community organizations. Outside rehearsals and performances are required. After-school concerts will be held at least twice during the year, and participation and attendance will be mandatory as well as a major part of the student's grade. Competitions also will be a required after/during-school event. This course may be repeated for credit.

**Concert Choir**

Gr. 9, 10, 11, 12

Prerequisite: Audition/Director Approval

1 credit (may be repeated for credit)

This choir is for students with advanced skills in choral performance. Members must demonstrate high proficiency in sight reading, pitch memory, recognition of basic musical notation, tone quality, breath control, interval recognition, and ability to maintain an independent part. This group participates in a wide range of school and community events and district music festival. The course will cover the entire spectrum of choral music at an advanced level of difficulty. Participation in performances is a requirement of the class. After-school concerts will be held at least twice during the year, and participation and attendance will be mandatory as well as a major part of the student's grade. Contests also will be a required after/during-school event. Singers will be encouraged to prepare a solo or take part in a small ensemble for district/state contests. Lettering is possible for students earning a set amount of points. This course may be repeated for credit. (Participation in interscholastic competition is required. Students must remain eligible as defined by MSHSAA).

*-Instrumental Music-*

**Musical Pop Culture**

Gr. 9, 10, 11, 12

Prerequisite: None

.5 credit (may repeat once but must be spring Semester if originally taken in fall or vice versa)

This course is designed to research, study, and discuss the many facets of music and how it correlates to our society. There is expected growth in a student's overall social, emotional, and cognitive development. Music has been proven to enhance reasoning, inspires creativity, and encourages critical thinking, self-discipline, problem-solving, decision-making, cooperation, and imagination. Music enables students to learn about themselves, other people, and humanity guiding music into pop culture.

**Guitar**

Gr. 9, 10, 11, 12

Prerequisite: None

.5 credit (can be repeated 2<sup>nd</sup> semester)

This is an elective course for beginning guitarists with little or no experience on the instrument. Students will learn open chords, power chords, movable chords, single note (melody) playing, accompaniment techniques, and a variety of playing techniques and styles, including both pickstyle and fingerstyle approaches to the guitar. The course also includes music fundamentals, theory, songs, performances, listening, improvising, and learning to read standard music notation as well as tablature. In addition, students will be encouraged to attend performances, as well as perform or compete themselves.

**Band**

Gr. 9, 10, 11, 12

Prerequisite: Middle school band or audition/approval

1 credit (may be repeated each year for credit)

The high school band is a competitive marching band in the fall, requiring much work outside of school time. Then it turns into a concert band during the spring semester, involving several performances and participating at the district music contest as a band and in solos and ensembles.

## Career Pathway for Sherwood Cass R-8

Business Management, Finance, and  
Information Technology Career Pathways

**Sherwood Elementary**

Elementary Computers

**Sherwood Middle School**

Keyboarding

Computer Literacy

Computer Technology

	<b>Business Management Pathway</b>	<b>Finance Pathway</b>	<b>Information Technology Pathway</b>
9th	Computer Applications I	Computer Applications I	Computer Applications I
	Computer Applications II	Computer Applications II	Computer Applications II
	Introduction to Business	Introduction to Business	
10th	Business Communications	Business Communications	
	Accounting I	Accounting I	Desktop Publishing I
	Comp. Apps III		Web Design
			Multimedia
11th	Business Law	Business Law	
	Accounting II	Accounting II	
	Business Management		
		Personal Finance	
	Computer Apps III	Computer Apps III	Computer Apps III
		Desktop Publishing II	Introduction to Computer Programming
12th	Supervised Business Experience	Supervised Business Experience	Supervised Business Experience
			Technology Assistant

-----PRACTICAL ARTS -----  
-Business and Technology-

Future Business Leaders of American (FBLA) encourages members in the development of individual projects that contribute to the improvement of home, business, and community; as well as building confidence, leadership and an understanding of American business enterprises. Students taking business classes are highly encouraged to join FBLA to enhance their career opportunities.

**Sherwood Cass R-8  
Business Department Mission Statement**

The purpose of the Sherwood Cass R-VII Business Education Program is to provide students with the skills necessary for success in today's technologically advanced society as community members, consumers, workers, and leaders. These skills are taught through the use of technology, simulations, job shadowing and mentoring, work experience, and the student organization of FBLA.

**Accounting I**  
Gr. 10, 11, 12

Prerequisite: None  
1 credit

Accounting is a course that covers basic record keeping knowledge that is used in the workplace. Emphasis is placed on working through the accounting cycle for a sole proprietorship. If a student plans to obtain any type of business degree, this class is highly recommended before college.

**Accounting II**  
Gr. 11, 12

Prerequisite: Accounting I  
1 credit--weighted

This course is designed to help students acquire a more thorough, in depth knowledge of accounting procedures and techniques utilized in solving business problems and making financial decisions. Students will develop skills in analyzing and interpreting information common to partnerships and corporations, preparing formal statements and supporting schedules, and using inventory and budgetary control systems. This course is the capstone course for the Finance Pathway. Completion of this course will prepare students for college accounting and entry level jobs in the accounting field.

**Business Communications**  
Gr. 10, 11, 12

Prerequisite: Computer Business Applications I  
.5 credit

Business Communications is a class designed to reinforce and strengthen students' employability skills in written and verbal communications. This class is designed for students pursuing degrees in business and those wanting to enter the workforce upon graduation. Students can earn .5 credit in English by taking this course.

**Business Law**  
Gr. 11, 12

Prerequisite: None  
.5 credit

This course is designed to acquaint students with the basic legal principles relevant to their roles as citizens, consumers, and employees through a mixture of personal, business, and consumer law. The content includes the basic characteristics of the American system of free enterprise, rights of private property, basic elements of contracts, employer-employee relations, landlords and tenants, individual rights, wills and estates, family and juvenile justice law, and community property. All business degrees require business law and this course sets the foundation for success in college business law.

**Business Management**

Gr. 11, 12

Prerequisite: 1 Business Credit

.5 credit--weighted

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 areas such as accounting, sales analysis, and inventory control is also introduced. This course is the capstone for the Business Management Pathway.

**Computer Business Applications II**

Gr. 9, 10, 11, 12

Prerequisite: Computer Business Applications I

.5 credit

Students will master more advanced Microsoft Office skills while serving as an administrative assistant in a fictitious business created by Mrs. Everhart and centered around local area attractions. Projects will be real world while developing employability skills needed to be successful on the job.

**Computer Business Applications III**

Gr. 10, 11, 12

Prerequisite: Computer Bus. Apps II

.5 credit, weighted

If you liked Computer Apps II and want to take it to the next level, Computer Apps III is a capstone class to the Computer Apps courses. Students will serve in a supervisory role within the fictitious business created by Mrs. Everhart with the Computer Apps II course, serving as administrative assistants under the Computer Apps III students. Students will further develop problem solving, critical thinking, and human resource skills while advancing computer skills.

**Desktop Publishing I**

Gr. 10, 11, 12

Prerequisite: Computer Bus. Apps I

.5 credit

Did you enjoy using Publisher in Computer Apps or Communications? If yes, then this is the course to take it a step further. Desktop students develop proficiency in using publishing software to create a variety of real life business publications such as flyers, brochures, newsletters, etc. while further developing time management, multi-tasking, organization, and communication skills.

**Desktop Publishing II**

Gr. 11, 12

Prerequisite: Grade of C or higher in Desktop Publishing I

1 credit

Students develop an advanced level of proficiency in using desktop publishing software to create a variety of business publications such as flyers, brochures, newsletters, etc. These students are asked to take on responsibility for larger projects for the school while enhancing employability skills.

**Introduction to Business**

Gr. 9, 10

Prerequisite: None

.5 credit

This course is designed to introduce students to how business works in today's society and to provide a foundation for other business courses. Content includes business functions such as accounting, management, marketing, and other consumer issues regarding money and money management, banking system and services, government's role in business, and technology in the business world.

**Introduction to Programming**

Gr. 11, 12

Prerequisite: Computer Business Apps I

.5 credit

This course focuses on converting problems into detailed plans, writing code into computer language, testing, monitoring, debugging, documenting and maintaining computer programs. Students will also design programs for specific uses.

**Multimedia**

Gr. 10, 11, 12

Prerequisite: Computer Business Apps I  
.5 credit

Did you enjoy designing and making electronic presentations in Computer Apps? If yes, then this is the course to take it a step further. Students will work with multimedia software to develop electronic presentations through the manipulation of text, art, graphics, photography, animation, audio, and video for presentations in various media formats.

**Web Design**

Gr. 10, 11, 12

Prerequisite: Computer Business Apps I  
.5 credit

This course deals with the use of Web programming languages (HTML, Javascript, etc.), graphics applications, and other Web authoring tools to design, edit, launch, and maintain Web sites and pages. Such topics as Internet theory, Web page standards, Web design elements, user interfaces, special effects, navigation, and emerging Web technologies will be included.

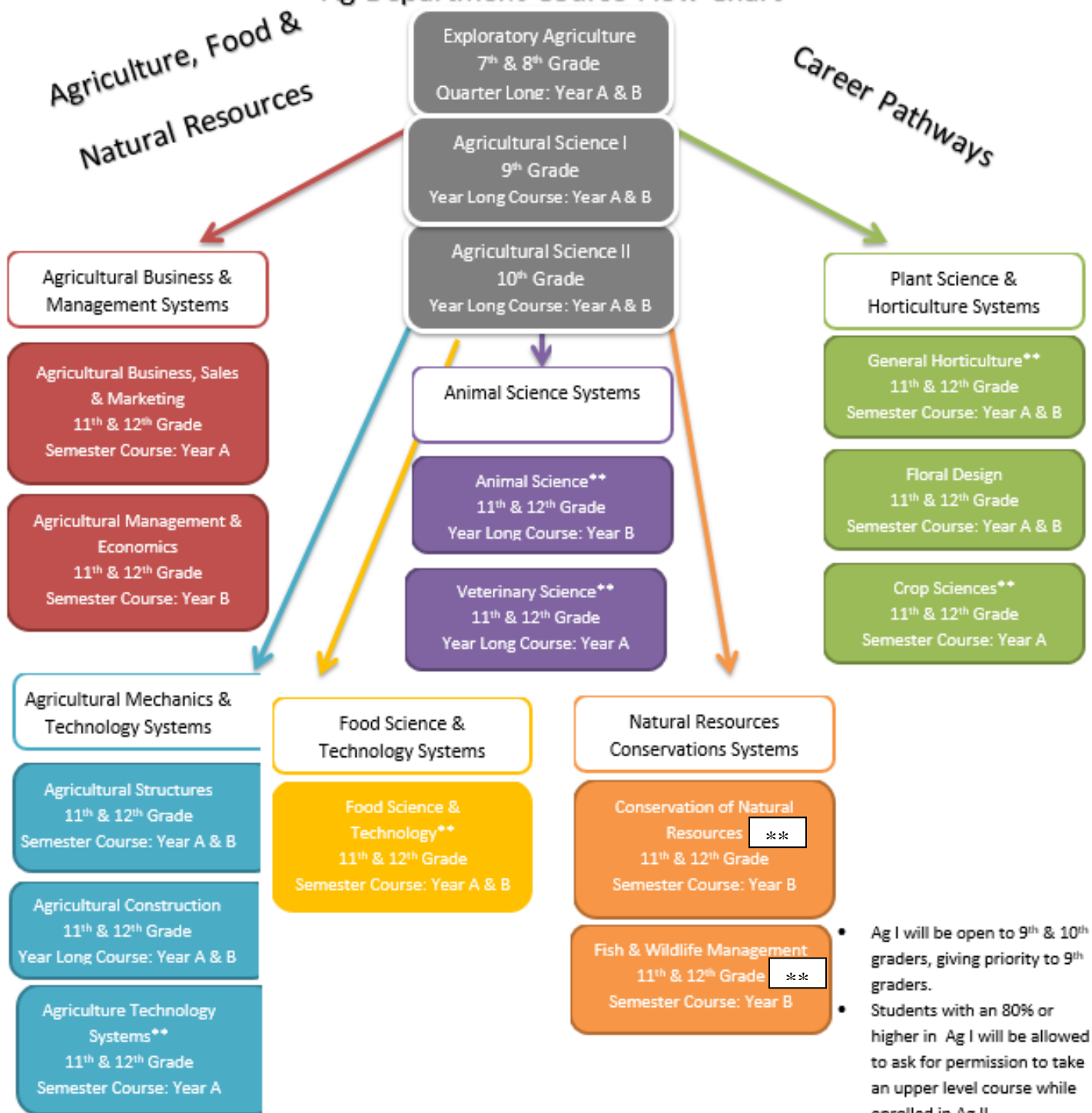
**Supervised Business Experience (SBE)**

Gr. 12

Prerequisite: Corresponding Business Capstone Course  
1 credit

Students who have taken business courses in a particular career path are given the opportunity to work in a related occupation while still enrolled in school. The teacher-coordinator works with business and industry to place students in an occupation that will further develop the competencies acquired by the student through class work. This course requires students to be a member of FBLA.

## Ag Department Course Flow Chart



- Ag I will be open to 9<sup>th</sup> & 10<sup>th</sup> graders, giving priority to 9<sup>th</sup> graders.
- Students with an 80% or higher in Ag I will be allowed to ask for permission to take an upper level course while enrolled in Ag II.
- A Science credit may be obtained by taking 3 full year (6 semesters) science based Ag courses. Two (4 semesters) of those courses must be Ag Science I and Ag Science II.
- \*\*Designates a science based Ag course

-----PRACTICAL ARTS-----

**-Vocational Agriculture-**

**(\*\*Prerequisite for ALL upper level Ag courses \*\* - A TSA must have been attempted in Ag II.)**

The National FFA organization helps to promote premier leadership, personal growth and career success. Examples of activities include contest teams, national convention, FFA camp, BBQ's, barn warming dance, and a variety of other fun activities. All of this is available to all students in grades 9-12 that are enrolled in an agriculture class and pay dues.

**Agricultural Science I**

Gr. 9, 10, 11

Prerequisite: None

1 credit

This introductory course is designed for instruction in animal science, career exploration, leadership, personal development and agricultural experience. Units may include agribusiness, natural resources, and food science. Membership in FFA is strongly encouraged due to the amount of time spent learning about FFA and doing associated activities during classroom time.

**Agricultural Science II**

Gr. 10, 11, 12

Prerequisite: C avg. in Ag. Science I

1 credit

This is a course designed for instruction in plant and crop science, soils, entomology, horticulture, and forestry, and additional instruction in agricultural mechanics, career development, leadership, and supervised agricultural experience. Membership in FFA is strongly encouraged due to the amount of time spent learning about FFA and doing associated activities during classroom time.

**Agricultural Business Sales and Marketing Management**

Gr. 11, 12

Prerequisites: C avg. in Ag. Science II

.5 credit (offered every other year)

This course includes human relations, personal inventory, careers in selling, and other experiences necessary for employment in agribusiness engaged in marketing, purchasing, storing, grading, and transporting supplies and products. Membership in FFA is strongly encouraged due to the amount of time spent learning about FFA and doing associated activities during classroom time.

**Agricultural Systems & Technology**

Gr. 11, 12

Prerequisites: C avg. in Ag. Science II

.5 credit

This course will include a variety of topics in the agricultural field that are not touched on in most of the other agricultural classes. Topics will include food science, grain storage facilities, technology advancements in agriculture, electrical systems, entomology and other typical life skills associated with mechanics and agriculture. The course will have a grilling competition and a variety of hands-on learning opportunities.

**Agricultural Construction**

Gr. 11, 12

Prerequisites: C avg. in Ag. Science II

1 credit (can be repeated once)

This course utilizes welding in the development and construction of major metal and wood projects. All students in the course will have the opportunity to build a project for themselves. Project construction costs required. Membership in FFA is strongly encouraged due to the amount of time spent learning about FFA and doing associated activities during classroom time.



### **Agricultural Structures**

Gr. 11, 12

Prerequisites: C avg. in Ag. Science II

1 credit

This course includes electrical wiring, electrical motors, concrete masonry, plumbing and sewage disposal, farm fences, product handling and processing equipment, and farm buildings. Membership in FFA is strongly encouraged due to the amount of time spent learning about FFA and doing associated activities during classroom time.

### **Advanced Crop Science**

Gr. 11, 12

Prerequisites: C avg. in Ag. Science II

.5 credit

Units in this course include growing systems, plant selection, production practices, harvesting, storing, marketing, fertilization, soils, conservation, chemicals, integrated pest management, water quality, and biotechnology. Membership in FFA is strongly encouraged due to the amount of time spent learning about FFA and doing associated activities during classroom time.

### **Floral Design**

Gr. 11, 12

Prerequisites: C avg. in Ag. Science II

.5 credit

This course includes the production, arrangement and retailing of flowers. It includes fresh, silk, or dried flowers to be used in the design of corsages, wedding bouquets, table flower arrangements, and seasonal holiday decorations.

### **Food Science & Technology**

Gr. 11, 12

Prerequisites: C avg. in Ag. Science II

.5 credit (offered every other year)

This course includes the areas of food chemistry and nutrition, food additives, food packaging and labeling, evaluation of foods, food microbiology, food processing, food fermentation, principles of sanitation and quality control.

### **Veterinary Science**

Gr. 11, 12

Prerequisites: C avg. in Ag. Science II

1 credit

Both food and companion animals are studied in this course. Topics include cell and tissue biology, anatomy, physiology, nutrition, disease prevention and diagnosis, and surgical procedures. Membership in FFA is strongly encouraged due to the amount of time spent learning about FFA and doing associated activities during classroom time.

### **General Horticulture**

Gr. 11, 12

Prerequisites: Ag. Science I & II, 3.0 GPA

.5 credit, weighted

This course includes the study of horticulture crops, horticulture industry, plant propagation and vegetable and fruit production. This is a dual credit course offered through State Fair Community College. For dual credit, students must pay tuition (which is approximately half the regular tuition rate). **\*\* Please note: If you choose to take this course for high school credit ONLY, purchase of the course textbook is still required.**

### **Supervised Agricultural Experiences**

Gr. 12

Prerequisite: Must be enrolled in an Ag. Class

1 credit while taking this course

This course provides for the enrollment of students that are released on school time to complete a cooperative occupational experience in an approved training station in agriculture. A signed training agreement and training plan must be completed for each student. This student must be a senior in good standing with the school and the Ag./FFA program. The student will be allowed to leave school for the last two periods of the day to work in this cooperative experience.

-----PRACTICAL ARTS -----  
 -Project Lead the Way-

**Civil Engineering & Architecture**

Gr. 10 (with approval), 11, 12

Prerequisite: None

1 credit

This course is designed for students interested in careers related to civil engineering and architecture. The major focus of this course is to expose students to the design and construction of residential and commercial building projects, design teams and teamwork, communication methods, engineering standards, and technical documentation. Students will analyze, design and build electronic and physical models of residential and commercial facilities. 3D modeling software will be used to create and test your own residential and commercial designs. Sophomores may be approved to take this course with recommendation from math teacher and 3.5 GPA. This course is limited to 15 students.

**Advanced Automation & Robotics**

Gr. 11, 12

Prerequisite: Instructor approval (strong work ethic & attendance are essential for approval)

.5 credit

Students will learn about the history and impact of automation and robotics as they explore mechanical systems, energy transfer, machine automation, and computer control systems. Using the VEX Robotics® platform, students apply what they know to design and program traffic lights, robotic arms, and more. This course is limited to 12 students.

**Computer Aided Drafting & Design**

Gr. 9, 10, 11, 12

Prerequisite: Instructor approval (based on prior experience from middle school course)

.5 credit

This course will introduce the student to computer-aided drafting and design. Basic two-dimensional drawing and creation of projects using a CAD program called Fusion 360. This program is similar to the 123D Design program that was used in the middle school Design and Modeling course. Students should be comfortable with using computer software and will be given several problem solving projects to complete using the Fusion 360 program. 3D printing will also be included with this course allowing students to 3D print some of the projects when completed. This course is limited to 12 students.

-----**PHYSICAL EDUCATION**-----

**\*\*Only one Physical Education class may be taken each semester\*\***

**Physical Education**

Gr. 9, 10, 11, 12

Prerequisite: None

1 credit

Physical education is a course designed to facilitate a student's physical, mental, and social health while teaching students the benefits of living an active lifestyle. This course will include a vast amount of varying physical activities that students will be able to participate in throughout their lives. Students enrolled in this course will participate in a mixture of exercise and games such as: basketball, pickleball, soccer, ultimate frisbee, golf, disc golf, backyard games, yoga/pilates, strength training, aerobic training, and much more. Students will be asked to participate daily and learn the basics of creating and implementing a fitness regimen. Finally students will learn valuable skills such as sportsmanship, leadership, and team building.

**Body Conditioning**

Gr. 9, 10, 11, 12

Prerequisite: None

1 credit (may be repeated for credit)

This advanced class focuses on weightlifting, plyometric training, and cardiovascular conditioning. This is an intense conditioning class designed for athletes and students who want to improve their flexibility, cardiovascular endurance, body composition, muscular strength and muscular endurance. Students will be taught how to create a personal workout plan that will meet their individual fitness goals.

**Care & Prevention of Athletic Injuries**

Gr. 10, 11, 12

Prerequisite: Health & Physical Education class

.5 credit

This class focuses on various treatments of athletic injuries, as well as rehabilitation and prevention methods. Human anatomy and physiology will be covered, along with a basis in CPR training. Students will also be taught basic first aid; including practical wrapping and splinting techniques of various body parts.

-----**HEALTH EDUCATION**-----

**Health**

Gr. 9, 10, 11, 12

Prerequisite: None

.5 credit

This course is designed to create an understanding of an individual's social, mental and physical well-being. A variety of topics is covered relating to situations individuals might encounter in everyday life. Topics studied include human anatomy, nutrition, physical fitness, substance use and abuse, communicable diseases, AIDS education and awareness, environmental health, relationships and parenting, and mental health.

-----ELECTIVES-----

**German I**

Gr. 9, 10, 11, 12

Prerequisite: C avg. in English courses or instructor approval

1 credit

Students will learn in sequence to understand, speak, write and read simple everyday German. Students will learn about German culture by studying famous German men and women.

**German II**

Gr. 9, 10, 11, 12

Prerequisite: C avg. in German I

1 credit

Students will expand their German vocabulary and learn the German language system. Students will become acquainted with customs and conventions of young Germans.

**German III**

Gr. 10, 11, 12

Prerequisite: C avg. in German II

1 credit, weighted

Students will expand their German skills.

**German IV**

Gr. 11, 12

Prerequisite: C avg. in German II

1 credit, weighted

Students will expand their German skills with an emphasis on improving speaking fluency.

**Public Speaking (Dual Credit)**

Gr. 11, 12

Prerequisite: 3.0 GPA, Principal Approval

.5 credit, weighted

This is a dual credit course through State Fair Community College that many students take online. Dual credit fees, along with the purchase of text material, is required. Beginning with experience in small group communication and a brief study of interpersonal communication theory, students will practice effective oral communication. A study of oral persuasive techniques will help students present informative speeches as well as persuasive speeches.

**Intro to Theater (Applied Communications)**

Gr. 9, 10, 11, 12

Prerequisites: Instructor approval

1 credit

This course is designed to acquaint students with the complexities of staging productions, from the audition process to the final performance. Aspects that will be touched upon in this class include: directing, makeup, lighting, theater history, stage presence, scenic production, sound, cueing, costuming, and personnel management. There will be an introduction to basic acting skills and the problems of performance, along with exploring stage combat and improvisational acting. Some class time will be devoted to speech and debate. We will discuss various aspects of speech and debate as it applies to a team setting. You may be asked to compete at one event during the speech and debate season. Please note: Some after school hours will be required for this course.

**Work Study**

Gr. 11, 12

Prerequisite: Administrative approval

.5 credit (can be repeated)

Work Study is for juniors & seniors who wish to learn real world skills which will translate directly into the workforce. Students are able to utilize this class for employment or unpaid internships with an organization or company which will directly help the student in their post-secondary path. Further requirements of the program include turning in paystubs or copies of hours worked, must be enrolled in at least two hours of seated courses per day, maintain 95% attendance, and not be suspended or expelled while in the program.

**Cadet Teacher**

Gr. 12

Prerequisites: 3.0 cum. GPA and no *D* or *F* in any previous high school course;  
Application/approval  
.5 credit

The cadet teacher course is designed for high school students who are interested in the field of education. This is a rigorous course and should only be taken by students who feel they can meet the challenges teachers face every day. Cadet teachers will be expected to work with students in a tutoring capacity during class time as well as complete assignments that are designed to familiarize students with the various aspects of the teaching profession. Cadet teachers will report to the cadet teacher coordinator, who will supervise the internship, assign and grade classroom work, and pair the student with a teacher for classroom experience. Students interested in becoming media specialists may be assigned to work in the library. Cadet teachers must be responsible, reliable and trustworthy. There can be no conflict of interest in regards to cadet/teacher relationships. All placement is contingent on administrator approval. Cadets also have the benefit of counting any hours of tutoring during cadet time for A+ hours.

**A+ Tutor**

Gr. 9, 10, 11, 12

Prerequisites: Must meet all requirements to be in the MO A+ program  
.5 credit

Students have an opportunity to tutor in an approved classroom to earn hours toward their required 50 A+ tutoring or mentoring hours. Students must be present in the approved classroom working one on one or in small groups with students. A log must be kept and turned in weekly to the A+ coordinator.

**Study Skills**

Gr. 9, 10, 11, 12

Prerequisites: None (IEP students only)  
.5 credit (may be repeated for credit)

This class is designed to support those **students who have an IEP**. Throughout the semester, students will be presented with effective strategies to be used in their high school class to aid in their success. Activities will include, but are not limited to the following: time management, learning strategies, decision making, coping skills, prioritizing, and problem solving.

**Driver Education** (summer)

Must be 15 years old

Prerequisite: None  
.25 credit

This class is offered **only during summer school**. The course consists of classroom instruction and driving experience and observation. The *Missouri Drivers Guide* serves as the textbook for the course. Each student will drive six hours and observe others driving twelve hours.

-----**Sherwood Internship Opportunities**-----

**Technology Assistant**

Gr. 12

Prerequisites: at least two technology class credits; application approval  
.5 credit

The student will work directly with our Sherwood Technology Director to learn how the network functions and provide technical support and services to staff and students. Activities include creating profiles, formatting disks, burning CDs, color printing, installing software, installing updates, mapping network printers and providing technical assistance.

**Public Relations Intern**

Gr. 12

Prerequisite: See description

Are you a student that enjoys social media and handles yourself in a mature and professional manner both online and in person? Are you fluent in Google Apps, Facebook & Twitter? The Public Relations Intern must complete an application to serve under the Sherwood Cass R-VIII School District Superintendent. They will assist in maintaining Sherwood's social media accounts and communicating exciting Sherwood news to our community. Strong writing and speaking skills are required. Applications can be found in the counselor's office.

**Sherwood Foodservice Café Intern**

Gr. 11, 12

Prerequisite: See description

The Sherwood Foodservice Café Intern will assist café staff in the everyday tasks such as: stocking of goods, dating/labeling food orders, food inventory, observation of food prep (no food handling), cleaning, etc. Should the student be interested in food prep, panning, transport or lunch service they will need to obtain a Cass County Food Handlers card.

**Sherwood Bus Barn Intern**

Gr. 11, 12

Prerequisite: See description

Are you interested in mechanics and taking care of vehicles? The bus barn intern will learn and assist with the care of school buses. Students will be required to work with our bus barn supervisor and assist with daily duties in maintaining Sherwood school buses. Students will: change oil, fuel buses, change filters, change tires, assist with performing preventative maintenance, take part in yearly inspections and check and change brakes. Experience is preferred but not required. This is a great opportunity for on the job training.

**Sherwood Maintenance Intern**

Gr. 11, 12

Prerequisite: See description

This internship allows students to work directly with our Director of Maintenance. The student will assist Mr. Jeffries with his daily jobs, run errands, check emergency lights and other "right hand man" tasks.

-----Required for Graduation-----

**Computer Business Applications I**

Gr. 9, 10, 11, 12

Prerequisite: None

.5 credit

Keyboarding is designed to help the student learn the art of touch keyboarding. The first emphasis of the class will be keyboarding. Memorizing the keys will be followed by an emphasis on production keyboarding and formatting materials for personal use. A review of capitalization, punctuation and other grammatical applications is incorporated into course materials. Each student will be encouraged to develop speed at the keyboard. This course fulfills the computer technology graduation requirement.

**Personal Finance**

Gr. 11, 12

Prerequisite: None

.5 credit

Understanding and managing personal finances are key to one's future financial success. This course is based on the Missouri Personal Finance Competencies and presents essential knowledge and skills to make informed decisions about real world financial issues. Students will learn how choices influence occupational options and future earning potential. Students also will learn to apply decision-making skills to evaluate career choices and set personal goals. The course content is designed to help the learner make wise spending, saving and credit decisions and to make effective use of income to achieve personal financial success.