

DE SOTO HIGH SCHOOL



COURSE DESCRIPTION BOOK 2024-2025

DE SOTO HIGH SCHOOL
815
AMVETS DRIVE
DE SOTO, MO 63020
PHONE 636-586-1085 | FAX 636-586-1059
WWW.DESOTO.K12.MO.US

TABLE OF CONTENTS

GENERAL INFORMATION

LETTER OF INTRODUCTION.....	3
GRADUATION REQUIREMENTS.....	4
FRESHMAN COURSE OFFERINGS.....	5
SOPHOMORE COURSE OFFERINGS.....	6
JUNIOR COURSE OFFERINGS.....	7
SENIOR COURSE OFFERINGS.....	8
ATHLETIC ELIGIBILITY.....	9
ASSESSMENTS.....	10
A+ PROGRAM.....	11
WEIGHTED/DUAL CREDIT COURSES.....	12
DUAL CREDIT PROGRAMS.....	13
COLLEGE PREPARATION TIMELINE.....	14

COURSE DESCRIPTIONS BY DEPARTMENT

ENGLISH.....	15
SOCIAL STUDIES.....	18
SCIENCE.....	22
MATH.....	27
FOREIGN LANGUAGE.....	32
PRACTICAL ARTS.....	34
FINE ARTS.....	42
PHYSICAL EDUCATION.....	50
GENERAL ELECTIVES.....	53

JEFFERSON COLLEGE AREA TECHNICAL SCHOOL

DESCRIPTION OF PROGRAMS.....	56
------------------------------	----

De Soto #73 School District



Senior High School

Dear Parents and Students:

At De Soto High School, we are proud of the course offerings we provide our students. The curriculum is aligned to state standards and our teachers work to educate each student enrolled with engaging, research-based teaching strategies.

The career and education planning guide contains information to assist you as you organize and implement a plan for your high school career and beyond. The career paths and career clusters information offers a range of possible careers for each student to consider. Once a career cluster has been selected, you can use the Program of Study templates to guide you in course planning. Parents can use the career paths information to discuss course selection and career opportunities with their children.

Student course selection is extremely important. Schedule changes can be very difficult and/or denied; therefore, students and parents should carefully consider selections to ensure the most appropriate choices for students. We also ask that students take rigorous coursework that prepares them for the academic challenges they may face after high school. Teachers, counselors, and administrators are available to assist students and parents as they make course decisions. Please do not hesitate to ask for assistance.

Sincerely,

Lisa Queen, Senior Counselor & Jefferson College ATS Liaison

queen.lisa@desoto.k12.mo.us

Ginger Schutte, Junior & Sophomore M-Z Counselor & A+ Coordinator

schutte.ginger@desoto.k12.mo.us

Jason Fischer, Freshman & Sophomore A-L Counselor & 504 Coordinator

fischer.jason@desoto.k12.mo.us

GRADUATION REQUIREMENTS

	High School Diploma		College Prep Diploma	
Course Category	Courses	Credits	Courses	Credits
English	English 9, 10, 11, 12	4	English 9, 10, 11 Senior year must take Advanced 12 TH or College Comp I/II	4
Math	Must pass Algebra I	3	Algebra I, Geometry, Algebra II or Algebra II/Trigonometry and an additional math credit from the options below **	4
Science	Principles of Biomedical Sciences, General Chemistry, Biology	3	Principles of Biomedical Sciences, General Chemistry, Biology	3
Social Studies	World History, American History, American Government	3	World History, American History, American Government	3
Foreign Language	None Required	0	Spanish I/II or French I/II	2
Practical Arts	Personal Finance (0.5) Unspecified (0.5)	1	Computer Applications (0.5) Personal Finance (0.5) Unspecified (0.5)	1.5
Fine Arts	Unspecified	1	Unspecified	1
Physical Education	PE or Strength Training (1.0)	1	PE or Strength Training (1.0)	1
Health	Health	0.5	Health	0.5
Additional Credit	None Required	0	Must come from one of the following courses (any combination): Psychology I, Psychology II, College American History I, College American History II, Zoology, Botany, Athletic Injuries College Chemistry and Honors Anatomy & Physiology	1
Electives	Unspecified	7.5	Unspecified	5
	Total	24	Total	26

Additional requirements for College Prep Diploma:

1. GPA 3.2 or Higher
2. 22 ACT Score
3. Valedictorian/Salutatorian must complete College Prep Diploma

***Additional math credit must come from the following: Math Analysis/Trig, Math Analysis/College Alg, College Alg/Trig, Precalculus or Calculus.*

FRESHMAN COURSE OFFERINGS

All classes with an (*) denotes a prerequisite

CORE CLASSES

English Department

- 9TH English (1.0)
- Advanced 9TH English (1.0)*

Social Studies Department

- World History (1.0)

Science Department

- Principles of Biomedical Sciences (1.0)

Math Department

- Math Course (1.0)

Recommendations for math courses will be coming from the student's MAP scores, placement tests, previous math classes and math class grades.

ELECTIVES

Foreign Language

- French I (1.0)
- Spanish I (1.0)

Physical Education

- PE (0.5 or 1.0)
- Health (0.5)
- Strength Training (0.5 or 1.0)*

Practical Arts

- Computer Applications (0.5)
- Multimedia (0.5)*
- Career Opportunities (0.5)

- Marketing Essentials (0.5)
- Business of Social Media (0.5)*
- Foods I (0.5)
- Fashion and Apparel (0.5)
- Housing and Interior Design (0.5)
- Family Living (0.5)
- Intro to Industrial Technology (0.5)

Fine Arts

- Art I (1.0)
- Music Appreciation (0.5)
- Stage/Film/Video (0.5)
- Women's Choir (1.0)
- Men's Choir (1.0)
- Concert Choir (1.0)*
- Chamber Choir (1.0)*
- Singer/Songwriter (0.5)*
- Concert Band (1.0)*
- Marching Band (0.5)*-1ST semester only
- Symphonic Band (0.5)*-2ND semester only
- Jazz Ensemble (1.0)*
- Jazz Lab (1.0)*
- Guitar (0.5)
- Public Speaking (0.5)
- Theatre Arts (1.0)
- Repertory Theatre (1.0)*

Miscellaneous

- Gender and Minority Studies (0.5)
- The Law in Action and Me (0.5)
- Creative Writing (0.5)
- Mass Media (1.0)*
- Intro to Engineering - PLTW (1.0)*

SOPHOMORE COURSE OFFERINGS

All classes with an (*) denotes a prerequisite

CORE CLASSES

English Department

- 10TH English (1.0)
- Advanced 10TH English (1.0)*

Social Studies Department

- American History (1.0)
- Honors American History (1.0)*

Science Department

- General Chemistry (1.0)
- Advanced Chemistry (1.0)*

Math Department

- Math Course (1.0)

Recommendations for math courses will be coming from the student's current math teacher. Please discuss with them which course they will be recommending for you.

ELECTIVES

Foreign Language

- French I (1.0)
- French II (1.0)*
- Spanish I (1.0)
- Spanish II (1.0)*

Physical Education

- PE (0.5 or 1.0)*
- Strength Training (0.5 or 1.0)*
- Men's Athletic Strength Training (0.5 or 1.0)*
- Women's Athletic Strength Training (0.5 or 1.0)*
- Hunter Education and Safety (0.5)

Practical Arts

- Computer Applications (0.5)
- Marketing Essentials (0.5)
- Multimedia (0.5)*
- Graphic Arts (0.5)*
- Personal Finance (0.5)
- Business Law (0.5)
- Business of Social Media (0.5)*
- Accounting I (1.0)
- Business Management: Sports and Entertainment (0.5)
- Website Development (0.5)*
- Career Opportunities (0.5)
- Foods I (0.5)
- Foods II (0.5)*
- International Foods (0.5)*

- Nutrition and Wellness (0.5)*
- Fashion and Apparel (0.5)
- Fashion and Apparel II (0.5)*
- Family Living (0.5)
- Child Development (0.5)
- Housing and Interior Design (0.5)
- Intro to Industrial Technology (0.5)
- Construction Practices (0.5)*

Fine Arts

- Art I (1.0)
- Pottery (0.5)
- Photography (0.5)
- Painting and Drawing (0.5)*
- Sculpture (0.5)*
- Music Appreciation (0.5)
- Stage/Film/Video (0.5)
- Women's Choir (1.0)
- Men's Choir (1.0)
- Concert Choir (1.0)*
- Chamber Choir (1.0)*
- Singer/Songwriter (0.5)*
- Guitar (0.5)
- Public Speaking (0.5)
- Concert Band (1.0)*
- Marching Band (0.5)* - 1ST semester only
- Symphonic Band (0.5)* - 2ND semester only
- Jazz Ensemble (1.0)*
- Jazz Lab (1.0)*
- Theatre Arts (1.0)
- Actor's Studio I (1.0)*
- Repertory Theatre (1.0)*

Miscellaneous

- Study Hall (0.5 or 1.0) (NO CREDIT)
- Creative Writing (0.5)
- Cadet Teaching (0.5)
- HiStep (0.5)*
- Leadership (0.5)*
- Gender and Minority Studies (0.5)
- The Law in Action and Me (0.5)
- Mass Media I or II (1.0)*
- Broadcasting (0.5)
- Human and Body Systems - PLTW (1.0)*
- Intro to Engineering - PLTW (1.0)*
- Principles of Engineering - PLTW (1.0)*

JUNIOR COURSE OFFERINGS

All classes with an (*) denotes a prerequisite

CORE CLASSES

English Department

- 11TH English (1.0)
- Honors 11TH English (1.0)*

Social Studies Department

- American Government (1.0)
- Advanced American Government (1.0)*

Science Department

- Biology (1.0)
- Advanced Biology (1.0)*
- Intro to Earth Sciences (0.5)*

Math Department

- Math Course (1.0)

Recommendations for math courses will be coming from the student's current math teacher. Please discuss with them which course they will be recommending for you.

ELECTIVES

Foreign Language

- French I (1.0)
- French II (1.0)*
- French III (1.0)*
- Spanish I (1.0)
- Spanish II (1.0)*
- Spanish III (1.0)*

Physical Education

- PE (0.5 or 1.0)*
- Strength Training (0.5 or 1.0)*
- Men's Athletic Strength Training (0.5 or 1.0)*
- Women's Athletic Strength Training (0.5 or 1.0)*
- Sports Officiating (0.5)*
- Lifetime Sports (0.5)*
- Hunter Education and Safety (0.5)

Practical Arts

- Computer Applications (0.5)
- Marketing Essentials (0.5)
- Multimedia (0.5)*
- Graphic Arts (0.5)*
- Personal Finance (0.5)
- Business Law (0.5)
- Business of Social Media (0.5)
- Accounting I (1.0)
- Accounting II (1.0)*
- Business Management: Sports/Entertainment (0.5)
- Website Development (0.5)*
- Programming – JAVA (0.5)*
- Career Opportunities (0.5)
- Introduction to Business (0.5)*
- Foods I (0.5)
- Foods II (0.5)*
- International Foods (0.5)*
- Nutrition and Wellness (0.5)*
- Fashion and Apparel (0.5)
- Fashion and Apparel II (0.5)*
- Family Living (0.5)

ELECTIVES CONTINUED

Practical Arts Continued

- Housing and Interior Design (0.5)
- Child Development (0.5)
- Child Development II (0.5)*
- Intro to Industrial Technology (0.5)
- Construction Practices (0.5)*

Fine Arts

- Art I (1.0)
- Pottery (0.5)
- Photography (0.5)
- Painting and Drawing (0.5)*
- Sculpture (0.5)*
- Music Appreciation (0.5)
- Stage/Film/Video (0.5)
- Women's Choir (1.0)
- Men's Choir (1.0)
- Concert Choir (1.0)*
- Chamber Choir (1.0)*
- Singer/Songwriter (0.5)*
- Guitar (0.5)
- Public Speaking (0.5)
- Concert Band (1.0)*
- Marching Band (0.5)* - 1ST semester only
- Symphonic Band (0.5)* - 2ND semester only
- Jazz Ensemble (1.0)*
- Jazz Lab (1.0)*
- Theatre Arts (1.0)
- Actor's Studio I (1.0)*
- Repertory Theatre (1.0)*

Miscellaneous

- A+ Tutoring (0.5 or 1.0)
- Study Hall (0.5 or 1.0) (NO CREDIT)
- Office Assistant (0.5 or 1.0)*
- Leadership (0.5)*
- Modern American Military History (0.5)
- Sociology (1.0)
- Psychology (0.5)
- Psychology II (0.5)*
- Creative Writing (0.5)
- Gender and Minority Studies (0.5)
- The Law in Action and Me (0.5)
- Athletic Injuries and Orthopedic Assessment (0.5)*
- Botany (0.5)*
- Zoology (0.5)*
- Intro to Engineering - PLTW (1.0)*
- Principles of Engineering - PLTW (1.0)*
- Honors Anatomy and Physiology (1.0)*
- Cadet Teaching (0.5)
- HiStep (0.5)*
- Broadcasting (0.5)
- Mass Media I, II or III (1.0)*

SENIOR COURSE OFFERINGS

All classes with an (*) denotes a prerequisite

CORE CLASSES

English Department

- 12TH English (1.0)
- Advanced 12TH English (1.0)*
- College Composition I & II (1.0)*
- Creative Writing (0.5)

Math Department

- Math Course (1.0)

Recommendations for math courses will be coming from the student's current math teacher. Please discuss with them which course they will be recommending for you.

ELECTIVES

Foreign Language

- French I (1.0)
- French II (1.0)*
- French III (1.0)*
- French IV (1.0)*
- Spanish I (1.0)
- Spanish II (1.0)*
- Spanish III (1.0)*
- Spanish IV (1.0)*

Social Studies Department

- Contemporary History (1.0)
- Modern American Military History (0.5)
- Sociology (1.0)
- Psychology (0.5)
- Psychology II (0.5)*
- Gender and Minority Studies (0.5)
- The Law in Action and Me (0.5)
- College American History I & II (1.0)*

Science Department

- Athletic Injuries and Orthopedic Assessment (0.5)*
- Botany (0.5)*
- Zoology (0.5)*
- College Chemistry (1.0)*
- Honors Anatomy and Physiology (1.0)*
- Intro to Earth Science (0.5)*
- Intro to Engineering - PLTW (1.0)*
- Principles of Engineering - PLTW (1.0)*

Physical Education

- PE (0.5 or 1.0)*
- Strength Training (0.5 or 1.0)*
- Men's Athletic Strength Training (0.5 or 1.0)*
- Women's Athletic Strength Training (0.5 or 1.0)*
- Sports Officiating (0.5)*
- Lifetime Sports (0.5)*
- Hunter Education and Safety (0.5)

Practical Arts

- Computer Applications (0.5)
- Marketing Essentials (0.5)
- Multimedia (0.5)*
- Career Opportunities (0.5)
- Graphic Arts (0.5)*
- Accounting I (1.0)
- Accounting II (1.0)*

- Personal Finance (0.5)
- Business Law (0.5)
- Business of Social Media (0.5)*
- Introduction to Business (0.5)*
- Business Management: Sports/Entertainment (0.5)
- Website Development (0.5)*
- Programming – JAVA (0.5)*
- CCE/Supervision (2.0-3.0)*
- Foods I (0.5)
- Foods II (0.5)*
- International Foods (0.5)*
- Nutrition and Wellness (0.5)*
- Fashion and Apparel (0.5)
- Fashion and Apparel II (0.5)*
- Family Living (0.5)
- Housing and Interior Design (0.5)
- Child Development (0.5)
- Child Development II (0.5)*
- Intro to Industrial Technology (0.5)
- Construction Practices (0.5)*

Fine Arts

- Art I (1.0)
- Pottery (0.5)
- Photography (0.5)
- Painting and Drawing (0.5)*
- Sculpture (0.5)*
- Music Appreciation (0.5)
- Stage/Film/Video (0.5)
- Women's Choir (1.0)
- Men's Choir (1.0)
- Concert Choir (1.0)*
- Chamber Choir (1.0)*
- Singer/Songwriter (0.5)*
- Guitar (0.5)
- Public Speaking (0.5)
- Concert Band (1.0)*
- Marching Band (0.5)* - 1ST semester only
- Symphonic Band (0.5)* - 2ND semester only
- Jazz Ensemble (1.0)*
- Jazz Lab (1.0)*
- Theatre Arts (1.0)
- Actor's Studio I (1.0)*
- Repertory Theatre (1.0)*

Miscellaneous

- A+ Tutoring (0.5 or 1.0)
- Study Hall (0.5 or 1.0) (NO CREDIT)
- Office Assistant (0.5 or 1.0)*
- Teacher's Assistant (0.5 or 1.0) (NO CREDIT)
- Mass Media (I, II or III) (1.0)*
- Broadcasting (0.5)
- Cadet Teaching (0.5)
- HiStep (0.5)*
- Leadership (0.5)*

ATHLETIC ELIGIBILITY

Missouri State High School Activities Association Eligibility

Knowing and following all MSHSAA standards will enable a student to protect his/her eligibility for MSHSAA interscholastic competition. Grades received the **preceding** semester will determine eligibility for each semester.

Grades 9-12: To be eligible to compete in a spring or fall semester, a student must be enrolled in **six full classes** (study hall and teacher assistant does not count toward the six full classes) and have received passing grades in a minimum of six classes the previous semester (3 units of credit).

NAIA College Freshman Athletics Eligibility Requirements

High school students planning to attend an NAIA institution must register at www.playnaia.org to determine their eligibility. Specify the code 9876 to ensure the ACT score is sent directly to NAIA. Below are the eligibility requirements:

- After completion of Junior year:
 - 3.3+ GPA without qualifying test score **OR** 3.0+ with qualifying test score
 - IF NOT MET, THEN:
- After completion of 7th high school semester
 - 2.8+ GPA without qualifying test score **OR** 2.5+ GPA with qualifying test score
 - IF NOT MET THEN:
- After Graduation
 - 2.3+ GPA without qualifying test score **OR** 2.0+ GPA with qualifying test score
 - Top 50% of graduating class

TAKEN FROM <https://www.ncsasports.org/naia-eligibility-center/requirements>

NCAA College Freshman Athletics Eligibility Requirements

High school students planning to attend a NCAA institution must register at www.ncaaclearinghouse.org. The NCAA Eligibility Clearinghouse evaluates the transcript of every potential athlete who has registered with the Clearinghouse.

A student registering for the ACT may report their score directly to the eligibility center by using the code 9999. At the end of the student's sixth semester, the student should request a transcript be sent to the eligibility center. **It is the responsibility of the student athlete to secure the information needed for NCAA eligibility.**

DIVISION I

16 Core Courses:

4 years English

3 years math (Algebra I or higher)

2 years of natural/physical science (1 year of lab if offered by high school)

1 year of additional English, math, or natural/physical science

2 years of social studies

4 additional credits (English, math, natural/physical science, social studies or foreign language)

2.3 GPA in NCAA core classes

DIVISION II

3 years English

2 years of math (Algebra I or higher)

2 years of natural/physical science (1 year lab if offered by high school)

3 years of additional English, math or natural/physical science

2 years of social studies

4 additional credits (English, math, natural or physical science, social studies or foreign language)

2.2 GPA in NCAA core classes

DE SOTO HIGH SCHOOL ASSESSMENTS

Standardized tests are designed to give a common measure of students' performance. They help compare an individual student's performance with the performance of a group of students from a given class, school or school system. Since a large number of students throughout the state or even country take the same test, "standards" can be developed to show whether school programs are succeeding or how students are performing. Different types of standardized tests have different purposes. The following are the standardized tests given to high school students:

EOC (End-of-Course Assessments)

End-of-Course Assessments are administered when a student has received instruction on the Missouri Learning Standards in a particular subject area. Districts must ensure that students complete EOC assessments in Algebra I, Algebra II (if student took Algebra I EOC prior to high school), English II, Biology, and American Government prior to high school graduation. **The End-of-Course assessments, which are required by the state for accountability purposes, are administered on the DHS campus.**

U.S. and Missouri Constitution Tests

Per state law, school districts are required to provide students with instruction on the U.S. and Missouri Constitutions. This instruction will be implemented through the student's American Government course, which all students will take in order to graduate. In addition, students must satisfactorily pass a test on the provisions and principles of the U.S. and Missouri Constitutions prior to high school graduation. **These tests are administered on the DHS campus.**

Missouri Civics Test

Per state law, students are required to pass an examination on the provisions and principles of American civics. The required examination shall consist of questions similar to the United States Citizenship and Immigration Services Examination administered to applicants for United States citizenship. The instruction and administration for this examination will be implemented through the student's American History course, which all students will take in order to graduate. **This test is administered on the DHS campus.**

ASVAB (The Armed Services Vocational Aptitude Battery)

The ASVAB measures strengths, weaknesses, and potential for future success. The ASVAB also provides career information for various civilian/military occupations and is an indicator for success in future endeavors whether that is college, the workforce, vocational school, or a military career. All De Soto High School students participate in the ASVAB assessment in the fall of their junior year. **This test is administered on the DHS campus.**

PSAT/NMSQT (Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test)

The PSAT/NMSQT measures verbal and mathematical reasoning skills important for academic success in college. It serves three purposes:

- It gives the student practice for the SAT and ACT.
- It is the first step in qualifying for scholarships sponsored by the National Merit Scholarship Corporation and other scholarship programs.
- It gives the student the opportunity to participate in the Student Search Service.

The test is approximately two hours in length, given in the fall, and is primarily taken in the junior year for NMSQT qualification. Students interested should consult with their school counselor for additional information. **This test, which is an optional test, is administered on the DHS campus.**

ACT (American College Test)

The ACT is a battery of four examinations: English, math, reading, and science reasoning. Each of these subgroups will yield separate scores measuring developed abilities in that area. The ACT also generates a composite score. The test is required by most colleges as a part of the application process for admission. Check with your counselor about taking the ACT or visit the ACT website at www.act.org. **This test is available to students 4 times a year on the DHS campus.**



A+ Program Overview

The A+ 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. In addition, there are some 4-year universities that will offer scholarship funds to students who meet A+ Program requirements.

A+ Program Financial Benefits

Students who sign an A+ agreement and meet the A+ program requirements are eligible to receive two years of partial or free tuition at any public community college or accredited vocational/technical institution in Missouri and some 4 year universities (provided state funding is available). **NOTE: Pell grants will always override A+ funds.**

A+ Student Eligibility

Students who graduate from a designated A+ high school may qualify for a state-paid financial incentive to attend any public community college or career/technical school in Missouri if the student successfully meets the following requirements:

- Enter into a written agreement with the high school prior to graduation. Agreement forms may be found in the Guidance Office.
- Attend an A+ designated school for 2 years.
- Graduate with an overall GPA of 2.5 or higher on a 4-point scale.
- Have an overall attendance rate of at least 95% for grades 9-12.
- Perform 50 hours of district-supervised, unpaid tutoring/mentoring.
- Score Advanced or Proficient on the Algebra I EOC (End of Course Exam) or a 17 on the ACT math subtest.
- Maintain a record of good citizenship and avoid the use of drugs and alcohol.
- Males must register with the Selective Service (age 18 and over).
- The student must make a good faith effort to first secure all available federal financial aid (that does not require repayment) through the Free Application for Federal Student Aid (FAFSA).

WEIGHTED/DUAL CREDIT/MOCAP COURSES

Weighted Course Description: All weighted courses will have an additional weight of 0.025 factored in where a student earns a passing grade. The GPA calculation will only be added to the “cumulative” GPA and will be used for “rank” purposes only. All prerequisites will stay the same.

Department	Course
English	College Composition I
	College Composition II
	Honors 11 TH English
Social Studies	College American History I
	College American History II
	Honors American History
Science	College Chemistry
	Honors Anatomy & Physiology
Math	College Algebra
	College Pre-Calculus
	College Calculus
AA/42 Hour Program	College Concepts in Biology
	College US and Missouri Government and Constitution

Dual Credit Course Description: Along with being weighted, these courses can be taken for both high school and college credit. All college credit will be granted through Jefferson College. **Please note that some colleges may limit the number or type of dual credit courses they will accept in transfer. It is the responsibility of students to contact their college of choice to determine which dual credit courses they will accept.** Students should also inquire as to whether the dual credit courses they wish to take will satisfy one of the general education requirements of the institution. Please keep in mind that eligibility guidelines for the college credit options are different for each college/university. **Jefferson College agrees to pay 1/3 of the discounted dual credit tuition rate, the student will pay 1/3, and De Soto School District will pay 1/3 of the tuition.** Jefferson College will make available the same academic support services provided to all Jefferson College students, including the library, academic support, and student services support.

Department	Course/Course Number	Credits
English	College Composition I / ENG 101	3 hours
	College Composition II / ENG 102	3 hours
Social Studies	College American History I / HST 103	3 hours
	College American History II / HST 104	3 hours
Science	College Chemistry / CHM 111	5 hours
Math	College Algebra / MTH 134	3 hours
	College Pre-Calculus / MTH 141	5 hours
	College Calculus / MTH 180	5 hours
College Elective	Introduction to Business / BUS 101	3 hours

Note: De Soto High School offers opportunities for those students who have exceeded DHS course offerings. For example, a student that has completed Calculus I and would like to take Calculus II may have the opportunity to take the course at Jefferson College. Please see a counselor for further details.

MOCAP Course Description: The Missouri Course Access Program (MOCAP) provides a catalog of online courses. MOCAP students are guided through courses by Missouri-certified teachers. Courses are delivered over the Internet. MOCAP's mission is to offer Missouri students' equal access to a wide range of high quality courses, flexibility in

scheduling, and interactive online learning that is neither time nor place dependent. MOCAP provides two options for families. A student can enroll full-time with a MOCAP provider. With this enrollment option, the student is fully enrolled in the virtual program's Host District and is then unenrolled from De Soto schools. They will take all of their course work through the virtual program and can even graduate from that program when they have earned the appropriate amount of credits. Students may also enroll part time in virtual learning based on course needs. This is requested through the De Soto School District and will be reviewed by a committee based on best educational interest. With the part time option, the student remains as a student in the De Soto School District and only takes virtual courses approved by the local committee. To learn more about MOCAP, please meet with your school counselor.

DUAL CREDIT PROGRAMS - ASSOCIATE OF ARTS/42 HOUR BLOCK

Associate of Arts Degree

In a partnership with Jefferson College, students can potentially graduate from high school with an Associate of Arts degree. The program begins the summer after the student's sophomore year of high school and continues through graduation. This program includes a combination of dual credit courses taught on the DHS campus and online courses through Jefferson College. Students would complete up to 68 college credits. If the AA degree is completed successfully, most Missouri public universities will enroll the student as a junior. There is an application process involved in this program. Parents of students who qualify to apply for this program will be contacted with more information via email during 2ND semester of their sophomore year.

42 Hour Block

In a partnership with Jefferson College, students can potentially graduate from high school having completed the general education 42 hour block. The program begins the summer after the student's sophomore year of high school and continues through graduation. This program includes a combination of dual credit courses taught on the DHS campus and online courses through Jefferson College. Students would complete a total of 42 college credits, which, upon successful completion, would allow them to be enrolled as a sophomore at most Missouri public universities. There is an application process involved in this program. Parents of students who qualify to apply for this program will be contacted with more information via email during 2ND semester of their sophomore year.

Eligibility

- 3.7 GPA or higher after completion of 3rd semester of high school
- As a sophomore, be enrolled in a minimum of 2 out of the 3 following courses: Advanced Chemistry, Advanced 10TH English, and Honors American History
- Chemistry (A- or Above) or Advanced Chemistry (B or Above)
- 10TH English (A- or Above) or Advanced 10TH English (B or Above)
- Be on track to take College Algebra, College Pre-Calculus or College Calculus by Senior year
- Submit application by deadline (deadline dates will vary from year to year)

Transferability

Parents and students should contact any university in which they are interested in to determine the transferability of the AA Degree and/or 42 Hour Block. Parents and students should also inquire about eligibility for athletics and scholarships (including A+) with desired university.

Tuition

The tuition for courses will be split between the student, De Soto High School, and Jefferson College, each paying 1/3. De Soto High School will provide textbooks for the courses taught on our campus. The student will be responsible for textbooks/necessary materials for any class taught online.

COLLEGE PREPARATION TIMELINE

9TH Grade

- Earn good grades: your transcript starts now
- Challenge yourself in the classroom
- Get involved! (Join a club, activity or participate in athletics)
- Sign up for the A+ Scholarship Program
- Build relationships with teachers, counselors, administrators, coaches, sponsors, etc.
- Keep a folder or list of all of your activities and accomplishments for your high school resume
- Start thinking about careers/colleges: talk to family, friends, teachers, and counselors about your ideas
- Develop your Individual Career and Academic Plan (ICAP) with your counselor
- Start community service hours

10TH Grade

- Continue to take challenging courses, earn good grades, stay involved/build your resume
- Review your ICAP with your counselor
- Start researching colleges: classroom lessons with your counselor with help with this
- Put thought into your summer work
- Consider taking the ACT

11TH Grade

- Continue to take challenging courses, earn good grades, stay involved
- Review your ICAP with your counselor
- Complete your A+ tutoring hours and confirm your progress on all requirements
- Go on college visits
- Explore/Develop your plan for after high school (community college, 4-year university, technical school, apprenticeship program, workforce or military)
- Meet with admissions representatives who visit our school
- Take the ACT as many times as you feel comfortable
- Take the ASVAB
- Start to refine your high school resume
- Start thinking about who you will ask for letters of recommendation

12TH Grade

- Continue to take challenging courses, earn good grades, stay involved
- Refine your high school resume
- Ask for letters of recommendation
- Submit college applications
- Apply for scholarships and other financial aid
- Complete the FAFSA (Oct 1ST-April 15th)
- Write thank you letters to everyone who helped you throughout the way
- Celebrate your hard work!

ENGLISH

Course Title	Prerequisite	Grade Level	Sem/Year
9 TH English	None	9	Year
Advanced 9 TH English	Placement Test	9	Year
10 TH English	9 TH English	10	Year
Advanced 10 TH English	9 TH English (A- or above) or Advanced 9 TH English (B or above)	10	Year
11 TH English	10 TH English	11	Year
Honors 11 TH English	10 TH English (A- or above) or Advanced 10 TH English (B or above)	11	Year
12 TH English	11 TH English	12	Year
Advanced 12 TH English	11 TH English; College Bound Student	12	Year
College Composition I	See Description Below	12	1 ST Semester
College Composition II	See Description Below	12	2 ND Semester
Creative Writing	None (this will be an elective English credit and will not count towards a graduation required English credit)	9, 10, 11, 12	Semester

**** Denotes class that is NCAA approved.**

CLASS: 9TH ENGLISH**

GRADE LEVEL: 9

PREREQUISITES: None

1 CREDIT

CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA

COURSE DESCRIPTION: This required course is a basic study of grammar, composition, literature, vocabulary, roots, and spelling. Writing lessons focus on grammar, spelling, organization, and MLA format. Composition centers on paragraph structure and is analytical as well as creative in nature. A research paper is also required. The literature study centers on a major Shakespearean play, novels, a short story unit, and a nonfiction unit. End-of-Course (EOC) Exam administered upon successful completion of course.

CLASS: ADVANCED 9TH ENGLISH**

GRADE LEVEL: 9

PREREQUISITES: Placement test given in 8TH grade determines eligibility

1 CREDIT

CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA

COURSE DESCRIPTION: Selections from the literature book and additional novels will focus on more challenging literature and/or on higher level depth of knowledge. Advanced students will read selections and develop their own ideas to present in class discussion. Socratic seminar will be introduced in this advanced class. Writing will focus on student development of ideas and rhetoric. Students will learn skills to analyze and synthesize information on their own. Students will present their understanding during class discussion, essay writing, presentations, discussion boards, and journals/reflective writings. Focus will be placed on understanding more complex literary devices and rhetoric. Students will analyze these devices to make connections and evaluate author's style and purpose. Writing will be taught in conjunction to the literary units and as stand-alone units. Students will develop their own ideas and present their ideas in essay form. Students will also compare and contrast text to text, text to self, and text to world. End-of-Course (EOC) Exam administered upon successful completion of course.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: 10TH ENGLISH****GRADE LEVEL: 10****PREREQUISITES: 9TH English****1 CREDIT***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA*

COURSE DESCRIPTION: This required course is a study of grammar, composition, literature, vocabulary, roots, and spelling. The study of grammar will be incorporated with the composition units and will be writing based. Students will create compositions for a variety of purposes including research. The study of literature will include units related to short story, novel, drama, poetry, and nonfiction. Oral presentations will be required throughout the year. End-of-Course (EOC) Exam administered upon successful completion of course.

CLASS: ADVANCED 10TH ENGLISH****GRADE LEVEL: 10****PREREQUISITES: 9TH English (A- or above) or Advanced 9TH English (B or above)****1 CREDIT***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA*

COURSE DESCRIPTION: This alternative to 10th English is faster paced for the bright and highly motivated students. There will be additional emphasis on ACT objectives and preparation for Honors English 11. Heavy emphasis is placed on novels, research, and communication skills. End-of-Course (EOC) Exam administered upon successful completion of course.

CLASS: 11TH ENGLISH****GRADE LEVEL: 11****PREREQUISITES: 10TH English****1 CREDIT***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA*

COURSE DESCRIPTION: This required course is an intensive study of American Literature requiring written and oral composition to analyze and explicate poetry, essays, short stories, and novels. The written compositions will continue the student's study of mechanics and logical reasoning as well as sentences, paragraphs, and theme structure. The study of grammar will include usage, commas, modifiers, and phrases and clauses. A research/term paper is a requirement. Vocabulary and roots will also be studied. Emphasis on higher level cognitive thinking skills will be implemented through classroom discussion, writing, assignments, and tests. Oral presentations and group work will be required throughout the year.

CLASS: HONORS 11TH ENGLISH****GRADE LEVEL: 11, .025 Weighted****PREREQUISITES: 10TH English (A- or above) or Advanced 10TH English (B or above)****1 CREDIT***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA*

COURSE DESCRIPTION: This alternative to 11th English is faster paced for the bright and highly motivated students. There will be additional emphasis on ACT objectives and preparation for Advanced 12th English or College Composition. Heavy emphasis is placed on novels.

CLASS: 12TH ENGLISH****GRADE LEVEL: 12****PREREQUISITES: 11TH English****1 CREDIT***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA*

COURSE DESCRIPTION: This required full-year course is designed to engage students in the careful reading and critical analysis of a variety of writings. Students will be taught to identify literary elements and devices. Throughout the course, there will be an emphasis on characterization, themes, and plot development. Through teacher-directed instruction, peer-supported learning, and self-directed learning students will enhance their reading abilities and strengthen their weaknesses. This course incorporates reading research and accentuates teacher-directed instruction, peer-supported learning, and self-directed learning.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: ADVANCED 12TH ENGLISH****GRADE LEVEL: 12****PREREQUISITES: 11TH English; College Bound Student****1 CREDIT***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA*

COURSE DESCRIPTION: This course is an alternative to 12th English and is designed for the student who plans to attend college. Students will be taught to identify literary elements and devices within a mix of classic and modern literature. Students will be required to read a variety of works including a Shakespearean play and four or five novels taken from the recommended reading list for high school students. Though certain selections are completed as a class, many are read individually. Exercises on characterization themes, and plot development will be done throughout the year. This course requires independent work skills and good study habits because students will be expected to complete extensive reading and writing outside of class. Students will be required to complete a senior memory book, oral presentations, and two research papers throughout the year.

CLASS: COLLEGE COMPOSITION I****GRADE LEVEL: 12, .025 Weighted****PREREQUISITES: 3.0 GPA (No ACT scores required); If student has a 2.8/2.9 GPA must have an ACT English and Reading Score of 18+ OR Accuplacer Next Gen Reading of a 246+.****.5 CREDIT (Semester 1)***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA*

COURSE DESCRIPTION: This course is an alternative to Advanced 12th English. The course offers the high school senior, who is qualified, dual credit for both De Soto High and Jefferson College. All instruction, pacing, assignments, and grading are at the collegiate level through Jefferson College. English Composition I offers the student the opportunity to learn to write competent expository essays and to do preliminary research. Students will review grammar and mechanics, but the emphasis is on the writing process. Course-Level Student Learning Outcomes: (1) Write well developed, mature, thoughtful essays free of grammatical and mechanical errors, (2) Use the writing process: plan, compose, REVISE, edit, proofread, (3) Use a variety of rhetorical modes to make significant point, (4) Analyze and critically evaluate model essays and student essays, (5) Research topics, find authoritative sources, and use those sources to support their claims, and (6) Apply MLA documentation standards. **Dual credit class for 3 credit hours of Jefferson College credit will be issued with a passing grade.**

CLASS: COLLEGE COMPOSITION II****GRADE LEVEL: 12, .025 Weighted****PREREQUISITES: 3.0 GPA (No ACT scores required), College Composition I (C or above); If student has a 2.8/2.9 GPA must have an ACT English and Reading Score of 18+ OR Accuplacer Next Gen Reading of a 246+.****.5 CREDIT (Semester 2)***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA*

COURSE DESCRIPTION: English Composition II continues the study of the writing process stressed in Composition I. Students will practice reading and writing critically and analytically, writing exposition, persuasion/argumentation, and the research paper. Course prerequisites include ENG 101 with a grade of "C" or better. **Dual credit class for 3 credit hours of Jefferson College credit will be issued with a passing grade.**

CLASS: CREATIVE WRITING**GRADE LEVEL: 9-12****PREREQUISITES: None****0.5 CREDIT***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA*

COURSE DESCRIPTION: Creative Writing is a semester class designed to allow students to learn the elements of creative writing and to create original forms of descriptive writing, poetry, drama, and fiction. Vocabulary development, creative writing techniques, and skills are explored. Students learn about composition, submission, and publication. Writings are presented orally and in written form. NOTE: This will be an elective English credit and will not count towards a graduation required English credit.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

SOCIAL STUDIES

Course Title	Prerequisite	Grade Level	Sem/Year
World History	None	9	Year
American History	World History	10	Year
Honors American History	World History (A- or above) or Advanced World History (B or above)	10	Year
American Government	American History	11	Year
Advanced American Government	American History (A- or above) or Honors American History (B or above)	11	Year
Contemporary History	None	12	Year
Modern Military History	None	11,12	Semester
Sociology	None	11,12	Year
Psychology	None	11,12	Semester
Psychology II	Psychology (C or above)	11,12	Semester
Gender and Minority Studies	None	9, 10, 11, 12	Semester
The Law in Action and Me	None	9, 10, 11, 12	Semester
College American History I	See Description Below	12	1 ST Semester
College American History II	See Description Below	12	2 ND Semester

****Denotes class that is NCAA approved.**

CLASS: WORLD HISTORY**

GRADE LEVEL: 9

PREREQUISITES: None

1 CREDIT

CAREER PATHWAY CODE: HUS

COURSE DESCRIPTION: This required course presents a chronological narrative of World History from the Renaissance and Reformation to the present. Through study of World History, one will become familiar with the varied experiences of people throughout that period of history. He or she will learn about the political, social, and economic development that has created the present world. As one studies the past, the individual will begin to better understand the challenges of the present and the major issues of the future.

CLASS: AMERICAN HISTORY**

GRADE LEVEL: 10

PREREQUISITES: World History

1 CREDIT

CAREER PATHWAY CODE: HUS

COURSE DESCRIPTION: This required course is a survey of American History from Reconstruction through the present. It is designed to give the student a background of factual information and an understanding of major ideas in American political, economic, and social history. Major emphasis is placed on American geography. The ultimate goal of the class is to prepare students to be informed citizens, capable of participating in modern American society.

CLASS: HONORS AMERICAN HISTORY**

GRADE LEVEL: 10, .025 Weighted

PREREQUISITES: World History (A- or above) or Advanced World History (B or above)

1 CREDIT

CAREER PATHWAY CODE: HUS

COURSE DESCRIPTION: This alternative course to American History is similar to the 10TH grade American History course but is designed for the honor student who wants to feel challenged in social studies. This course is designed to help students prepare for college work. Although the same material is covered in the regular American History course, this course goes

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

more in depth and higher order thinking skills are used. Literature is integrated into the historical units covered in class throughout the school year

CLASS: AMERICAN GOVERNMENT**

GRADE LEVEL: 11

PREREQUISITES: American History

1 CREDIT

CAREER PATHWAY CODE: HUS

COURSE DESCRIPTION: In this required course, students will examine the principles of American Government. Emphasis of the course is on the foundations of U.S. Government, the U.S. Constitution and the U.S. Bill of Rights. This course explores topics including the rights and responsibilities of U.S. citizenship, the three branches of government, checks and balances, elections and voting, and comparative government. This course includes the following Missouri graduation requirements: United States Constitution Exam and the State Constitution Exam. End-of-Course (EOC) Exam administered upon successful completion of course.

CLASS: ADVANCED AMERICAN GOVERNMENT**

GRADE LEVEL: 11

PREREQUISITES: American History (A- or above) or Honors American History (B or above)

1 CREDIT

CAREER PATHWAY CODE: HUS

COURSE DESCRIPTION: This course of study is similar to the 11TH grade American Government course but is designed for the highly-motivated student who wants to prepare for college level work. Advanced American Government will challenge students to use higher level thinking skills. Historical and contemporary readings, simulations, projects, and class discussions are embedded in the curriculum with an emphasis on critical thinking and problem solving. This course includes the following Missouri graduation requirements: United States Constitution Exam, Missouri State Constitution Exam, and the Government End of Course Exam.

CLASS: CONTEMPORARY HISTORY**

GRADE LEVEL: 12

PREREQUISITES: None

1 CREDIT

CAREER PATHWAY CODE: HUS

COURSE DESCRIPTION: This course is designed to broaden the knowledge of the student and to develop his or her interest in many varied problems and issues confronting people today. No attempt is made to provide exacting solutions but healthy discussions usually result in more intelligent attitudes and opinions. Topics discussed will include economic, social, political, and international issues. *USA Today* and *CNN Student News* are used as classroom aids.

CLASS: MODERN AMERICAN MILITARY HISTORY**

GRADE LEVEL: 11 or 12

PREREQUISITES: None

.5 CREDIT

CAREER PATHWAY CODE: HUS

COURSE DESCRIPTION: American Military History is a survey course on American conflicts from the Spanish American to the War on Terrorism. Emphasis will be on American foreign policy and military strategy.

CLASS: SOCIOLOGY**

GRADE LEVEL: 11 or 12

PREREQUISITES: None

1 CREDIT

CAREER PATHWAY CODE: HUS

COURSE DESCRIPTION: Sociology is the study of human social groups, the processes of their organization, the standards and regulations established for continual orderly development, and their patterns of behavior. It is concerned with the cultural development of groups, language, political organization, economic and social activities and geographical, biological,

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

and the radical influences on those cultures. It also deals with the various domestic, political, economic, educational, and religious instructions devised by man to make his life more satisfying and productive.

CLASS: PSYCHOLOGY**

GRADE LEVEL: 11 or 12

PREREQUISITES: None

.5 CREDIT

CAREER PATHWAY CODE: HLS, HUS

COURSE DESCRIPTION: General Psychology is the study of the mind, the body, and how they work together to create who we are as people. It is a basic survey of behavioral principles. This course covers core concepts in psychology beginning with a basic introduction to psychology: What is psychology? Why do we study psychology? What are some important trends in the field of psychology? Other topics to be studied include psychological methods-research put into practice; the working of the body and mind-psychology and the brain; sensations and perceptions-psychology of the body; and consciousness-various altered states of consciousness. We will end the semester with a unit on learning-how learning occurs? We will do a variety of fun and interesting activities such as creative projects, group work, notes, discussions, current events, and videos. We will conduct a variety of hands-on projects such as building models of neurons, creating a play-doh model of the parts of the brain, and studying the various functions of the four lobes of the brain. Projects include a sleep and dream analysis study, meditation study and addiction study. A variety of assessments will be used throughout the semester: binders, quizzes, projects, classroom participation, and exams will be used to check for your understanding. Our hope is for you to leave this class with a strong foundation of knowledge on human behavior and development and an interest to keep learning about them in the future.

CLASS: PSYCHOLOGY II**

GRADE LEVEL: 11 or 12

PREREQUISITES: Psychology (C or above)

.5 CREDIT

CAREER PATHWAY CODE: HLS, HUS

COURSE DESCRIPTION: Psychology II will analyze the topics of memory, thinking, language, intelligence, creativity, motivation, emotion, psychological testing, personality examination, stress and mental health, psychological disorders and treatment. We will analyze what is normal. In addition, we will examine historical and contemporary treatment of mental illness. We will conduct mini units on autism and the dissociative identity disorder. Students will create a memory project and a creativity project. We will do a variety of fun and interesting activities. A variety of methods are used in psychology to actively engage students in the learning process and to promote both their intellectual and psychological development. These include lectures, class discussions, and current research in psychology, class experiments and demonstrations, working in groups, case study analysis, and audiovisual presentations. Class time is divided between lecture, films, discussions, experiments, and demonstrations.

CLASS: GENDER AND MINORITY STUDIES

GRADE LEVEL: 9-12

PREREQUISITES: None

.5 CREDIT

CAREER PATHWAY CODE: HUS

COURSE DESCRIPTION: This course is open to any student who would enjoy learning about the history of and issues concerning gender, race, class, conflict, and societal interactions of various groups that are only offered as snapshots in the required social studies courses. This course will focus on the civil liberties afforded to these groups throughout world history. This course is designed for student-driven instruction, student-led discussions, and project-based learning. This course will not incorporate traditional lecture, notes, and pen-paper tests. Assessments will include student created scoring guides and self-reflection. Projects and writing assignments will be designed by students with instructor guidance.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: THE LAW IN ACTION AND ME**GRADE LEVEL: 9-12****PREREQUISITES: None****.5 CREDIT***CAREER PATHWAY CODE: HUS*

COURSE DESCRIPTION: This course will address the ability of students to study and actively participate in topics concerning real life issues, develop their voice through controversial issues, and involve themselves in analyzing and working to solve public problems. Topics will include the development of law in society, criminal law and trial processes, tort and civil law, consumer law, and family law. This course is designed for student-driven instruction, student-led discussions, and project-based learning. Assessments will include student created scoring guides and self-reflection. Projects and writing assignments based on role-plays, simulations, and class debates/discussions will be designed by students with instructor guidance. Students will actively participate in designing and implementing individual and small group projects related to their school and/or community.

CLASS: COLLEGE AMERICAN HISTORY I****GRADE LEVEL: 12, .025 Weighted****PREREQUISITES: 3.0 GPA (No ACT scores required); If student has a 2.8/2.9 GPA must have an ACT Reading score of 18****.5 CREDIT (Semester 1)***CAREER PATHWAY CODE: HUS*

COURSE DESCRIPTION: American History is a general study of the history of the United States designed to help the student understand and function in this society. This course is a high paced and fast moving course. The course begins with the founding of our nation and continues to the present. **Dual credit for 3 credit hours of Jefferson College credit will be issued with a passing grade.**

CLASS: COLLEGE AMERICAN HISTORY II****GRADE LEVEL: 12, .025 Weighted****PREREQUISITES: 3.0 GPA (No ACT scores required), College American History I (C or above); If student has a 2.8/2.9 GPA must have an ACT Reading score of 18****.5 CREDIT (Semester 2)***CAREER PATHWAY CODE: HUS*

COURSE DESCRIPTION: This is the follow-up semester to College American History I. American History is a general study of the history of the United States designed to help the student understand and function in this society. This course is a high paced fast moving course. The course begins with the founding of our nation and continues to the present. **Dual credit for 3 credit hours of Jefferson College credit will be issued with a passing grade.**

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

SCIENCE

Course Title	Prerequisite	Grade Level	Sem/Year
Principles of Biomedical Science - PLTW	None	9	Year
General Chemistry	Principles of Biomedical Science	10	Year
Advanced General Chemistry	Principles of Biomedical Science (B or Above) and Algebra I (C or above)	10	Year
Biology	General Chemistry	11	Year
Advanced Biology	Gen. Chem (A- or above) Adv. Gen. Chem (B or above)	11	Year
Athletic Injuries and Orthopedic Assessment	Biology (C or above) or Current Enrollment in Biology	11, 12	Semester
Botany	Biology (C or above) or Chemistry (C or Above)	11, 12	Semester
Zoology	Biology (C or above) or Chemistry (C or Above)	11, 12	Semester
College Chemistry	See Description Below	12	Year
Honors Anatomy and Physiology	Current Enrollment in Biology and Chemistry (C or above)	11, 12	Year
Introduction to Earth Sciences	Successful completion of Physics 1st, Principles of Biomedical Sciences or Gen. Chemistry	11, 12	Semester
Intro to Engineering - PLTW	See description below	9, 10, 11, 12	Year
Principles of Engineering - PLTW	See description below	10, 11, 12	Year
Human Body Systems - PLTW	Principles of Biomedical Science (B or Above) & Teacher Approval	10	Year

**** Denotes class that is NCAA approved.**

CLASS: PRINCIPLES OF BIOMEDICAL SCIENCE - PLTW (PROJECT LEAD THE WAY)**

GRADE LEVEL: 9

PREREQUISITES: None

1 CREDIT

CAREER PATHWAY CODE: HLS, NRA

COURSE DESCRIPTION: Principles of Biomedical Science (PBS) is a full-year high school course in the PLTW Biomedical Science Program. This course serves to provide foundational knowledge and skills in fields such as biology, anatomy & physiology, genetics, microbiology, and epidemiology as well as engage students in how this content can be applied to real world situations, cases, and problems. Through both individual and collaborative team activities, projects, and problems, students will tackle real-world challenges faced by biomedical professionals in the field. They will work with the same tools and equipment used in hospitals and labs as they engage in relevant hands-on work. Students will develop skill in technical documentation to represent and communicate experimental findings and solutions to problems. In addition, students will explore how connections to other disciplines such as computer science and engineering shape the future of medicine and practice collaboration techniques that will help them connect with professionals across any field.

CLASS: GENERAL CHEMISTRY**

GRADE LEVEL: 10

PREREQUISITES: Physics First

1 CREDIT

CAREER PATHWAY CODE: HLS, NRA

COURSE DESCRIPTION: This required course is the study of matter and its properties. Students will focus on properties of matter, interactions of matter, and various states of matter, and their associated scientific laws. Emphasis will include a study of atomic structure, classification of matter, the periodic table, bond formation, molecular structure, and related mathematical concepts. The course is structured to include informational, instructional, cooperative learning, guided and

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

independent practice, and hands-on laboratory investigation. Emphasis is placed on inquiry skills involving formal reasoning, laboratory technique, verbal, mathematical and written communication.

CLASS: ADVANCED GENERAL CHEMISTRY**

GRADE LEVEL: 10

PREREQUISITES: Algebra 1 (C or above)

1 CREDIT

CAREER PATHWAY CODE: HLS, NRA

COURSE DESCRIPTION: This alternative course to General Chemistry will cover the same topics as General Chemistry. In addition, Advanced Chemistry will develop concepts concerning reaction rate and chemical equilibrium; acids, bases, and salt solutions of electrolytes oxidation-reduction reactions and nuclear chemistry. There will also be more emphasis on the technological applications of chemistry in today's society.

CLASS: BIOLOGY**

GRADE LEVEL: 11

PREREQUISITES: General Chemistry

1 CREDIT

CAREER PATHWAY CODE: HLS, NRA

COURSE DESCRIPTION: This required course will focus on the diversity of life, biological evolution, and the interrelationships of all organisms with special emphasis on man's place in nature. Students will examine current problems such as pollution, overpopulation, energy sources, endangered species, and relevance of cell and specialized cell biology role of DNA. The course is taught utilizing inquiry and investigative skills including work with microscope and dissection. Lab aspect to class includes: DNA extractions, dissection of a frog, microscope labs looking at deadly bacteria, specialized cells, living cells, unicellular protists, and microscopic animals. Labs will also include observing the phases of cell division with the microscope, along with many other simulations and projects. End-of-Course (EOC) Exam administered upon successful completion of course.

CLASS: ADVANCED BIOLOGY**

GRADE LEVEL: 11

PREREQUISITES: General Chemistry (A- or above) or Advanced General Chemistry (B or above)

1 CREDIT

CAREER PATHWAY CODE: HLS, NRA

COURSE DESCRIPTION: Advanced Biology is designed with the college-bound student in mind, specifically to those seeking a degree in science, medicine, or a related healthcare field. Accordingly, each standard will be explored in greater depth in order to give students a more extensive understanding of the material. In Advanced Biology students will use the scientific inquiry process to design their own labs to solve specific biological problems. In addition, research methods, bias, and validity will be discussed. Assessments will include standard summative and formative assessments as well as lab practicals and research-based projects.

CLASS: ATHLETIC INJURIES & ORTHOPEDIC ASSESSMENT

GRADE LEVEL: 11 or 12

PREREQUISITES: Biology (C or above) or Current Enrollment in Biology

.5 CREDIT

CAREER PATHWAY CODE: HLS

COURSE DESCRIPTION: In this elective course, students in Athletic Injuries and Orthopedic Assessment will take an in-depth look at orthopedic anatomy, athletic injuries and how to make assessments, treat and rehabilitate athletic injuries. The course will mostly focus on injury types (sprains, strains, fractures, contusions, etc.), assessment of those injuries, basic anatomy and terminology, medial reports, skills used in the athletic training field, training theory, special testing of injuries, injury prevention techniques (taping, wrapping, splinting and better training) and specific injuries to the foot, ankle, knee, elbow and wrist. Students will demonstrate learning through stabilizing joints via taping, splinting, palpation and assessing injuries. Students will also research rehabilitation techniques and proper wrappings for joints. This course will be extremely helpful for students interested in going to college and pursuing a career as an Athletic Trainer, Coach, Physical Therapist, Orthopedic Surgeon, and many other medical professions.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: BOTANY****GRADE LEVEL: 11 or 12****PREREQUISITES: Biology (C or above) or Chemistry (C or above)****.5 CREDIT***CAREER PATHWAY CODE: NRA*

COURSE DESCRIPTION: In this elective course, students will focus on the structure, function, characteristics, diversity, adaptations, reproduction, and ecology as it relates to plant life. Coursework includes numerous laboratory investigations including an in-depth look at the structure and function of the roots, stems, leaves, flowers, and fruits. Students will learn the techniques of seed germination, planting and growing a variety of plants, how to care for and fertilize them. There will be a field trip to one of several local venues where students will study a variety of topics involving plants.

CLASS: ZOOLOGY****GRADE LEVEL: 11 or 12****PREREQUISITES: Biology (C or above) or Chemistry (C or above)****.5 CREDIT***CAREER PATHWAY CODE: NRA*

COURSE DESCRIPTION: In this elective course, students in Zoology will be introduced to the study of animals with emphasis placed on the nine major phyla of the animal kingdom. As members of the animal kingdom, we can learn so much about ourselves by studying other animals. Topics will include taxonomy, structure, function, characteristics, life processes, diversity, reproduction, evolution, and ecology as it relates to animal life. Students will take a field trip to the St. Louis Zoo, make an arthropod collection, compare animal forms through dissection, explore owl pellets, and participate in other exciting activities.

CLASS: COLLEGE CHEMISTRY****GRADE LEVEL: 12, .025 Weighted**

PREREQUISITES: 3.0 GPA (No ACT scores required), General Chemistry (C or above), Algebra I (B+ or above); If student has a 2.8/2.9 GPA must have an ACT Reading score of 18 OR Accuplacer Next Gen Reading of a 246+.

1 CREDIT*CAREER PATHWAY CODE: HLS, NRA*

COURSE DESCRIPTION: This is a comprehensive introductory chemistry course. Candidates for College Chemistry should be accomplished math and science students who are prepared for a fast-paced, intensive science course. Major topics include atomic structure, periodicity and bonding; names formulas and reactions of chemical substances; the mole concept, including extensive stoichiometry, thermochemistry, aqueous solutions, kinetic theory, gas behavior, solution chemistry, and acid-base chemistry, and other topics as time permits. Summer review homework is assigned. **Dual credit class for 5 credit hours of Jefferson College credit with a passing grade.**

CLASS: HONORS ANATOMY AND PHYSIOLOGY****GRADE LEVEL: 11, 12, .025 Weighted****PREREQUISITES: Current enrollment in Biology and Chemistry (C or above)****1 CREDIT***CAREER PATHWAY CODE: HLS, HUS*

COURSE DESCRIPTION: This course is the study of the human body structure and function. The course is designed to provide a foundation and background for students interested in health-oriented/medical fields and in studying the tissues, organs, and systems of the human body. These foundations are practiced and emphasized through dissections, reflex lab, cadaver lab (St. Louis University) along with practical skills such as: splinting, blood pressure, reflex testing, sensation testing, pulse, palpation, micrographs and microscope usage, and physiological muscle movements. Use of simulations, model building and peer evaluation are other hallmarks of the course. Students going into any health or medical fields should take this course.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: INTRODUCTION TO EARTH SCIENCES/PALEONTOLOGY**GRADE LEVEL: 11 or 12****PREREQUISITES: Successful Completion of Biomedical Science, Physics 1st, or General Chemistry****1 CREDIT***CAREER PATHWAY CODE: HLS, NRA*

COURSE DESCRIPTION: This course will begin with understanding how the earth was formed and continues to be shaped by various forces including plate tectonics. This course will discuss the various ages of the earth and what that looked like here in Missouri during these different times. The course will then cover the basics of rock formation and mineral composition including how they are used for industrial and personal use purposes. Throughout the course both local mostly marine fossils and dinosaur fossils will be used to learn lab techniques, to better understand past life on the planet, the environment in which they lived in, how to identify them into classes-through species, and how to prepare them for research use. The last unit will cover the various fauna of Southeast Missouri from Cambrian age to Mississippian Age rocks that are commonly found in our area and also discuss the uncommon occurrence of Dinosaurs and Ice Age organisms like the Mastodon and Giant Sloth.

CLASS: INTRODUCTION TO ENGINEERING (IED) - PLTW (PROJECT LEAD THE WAY)**GRADE LEVEL: 9-12****PREREQUISITES: Grades 10-12 (B or higher in Science and Math courses); 9th grade (JH PLTW class with proficient, or distinguished on PLTW EOC)****1 CREDIT***CAREER PATHWAY CODE: HLS, NRA*

COURSE DESCRIPTION: Introduction to Engineering Design (IED) is a full-year high school engineering course in the PLTW Engineering Program. In IED, students explore engineering tools and apply a common approach to the solution of engineering problems, an engineering design process. Through both individual and collaborative team activities, projects, and problems, students apply systems thinking and consider various aspects of engineering design including material selection, human-centered design, manufacturability, assemblability and sustainability. Students develop skills in technical representation and documentation especially through 3D computer modeling using a Computer Aided Design (CAD) application. As part of the design process, students produce precise 3D-printed engineering prototypes using an additive manufacturing process. Student-developed testing protocols drive decision-making and iterative design improvements.

CLASS: PRINCIPLES OF ENGINEERING (POE) - PLTW (PROJECT LEAD THE WAY)**GRADE LEVEL: 10-12****PREREQUISITES: Intro to Engineering (B or above and proficient or distinguished on the PLTW EOC)****1 CREDIT***CAREER PATHWAY CODE: HLS, NRA*

COURSE DESCRIPTION: Principles of Engineering is a full-year course designed to be a high school student's second exposure to the PLTW Engineering program and is appropriate for students in grades 10-12. In Principles of Engineering, students explore a broad range of engineering disciplines, careers, and solve real-world engineering problems. This course introduces students to engineering concepts that are applicable to a variety of engineering disciplines and empowers them to develop technical skills through the use of engineering tools such as 3-D modeling software, hands-on prototyping equipment, programming software, and robotics hardware to bring their solutions to life. Students apply the engineering design process to solve real-world problems across a breadth of engineering fields such as mechanical, robotics, infrastructure, environmental sustainability, and product design and development.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: HUMAN BODY SYSTEMS - PLTW (PROJECT LEAD THE WAY)

GRADE LEVEL: 10

PREREQUISITES: Principles of Biomedical Science (B or above) and teacher approval

1 CREDIT

CAREER PATHWAY CODE: HLS, NRA

COURSE DESCRIPTION: Human Body Systems (HBS) is the second course in Project Lead The Way's Biomedical Sciences pathway. This course will provide foundational knowledge and skills in anatomy and physiology, clinical medicine, and laboratory research. The course engages students in how this content can be applied to real-world situations, cases, and problems. Since this course will be taken by sophomores, it will provide a solid foundation for their 11th grade biology course.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

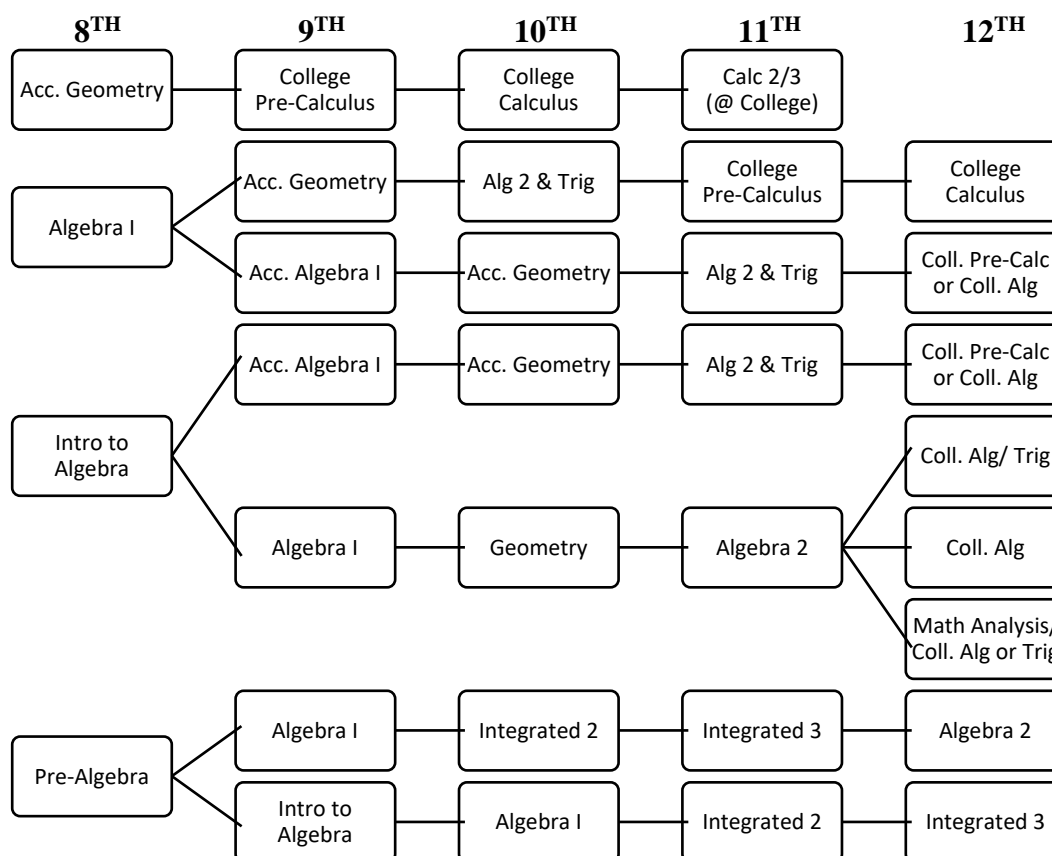
HLS= Health Services
NRA= Natural Resources/Agriculture

MATH

Course Title	Prerequisite	Grade Level	Sem/Year
Pre-Algebra	See Description Below	9	
Introduction to Algebra	See Description Below	9,10,11	Year
Algebra I	See Description Below	N/A	Year
Algebra IA	See Description Below	N/A	2 ND Semester
Accelerated Algebra I	See Description Below	9	Year
Geometry	See Description Below	N/A	Year
Accelerated Geometry	See Description Below	9, 10	Year
Algebra II	See Description Below	N/A	Year
Math Analysis	See Description Below	N/A	1 st semester only
Trigonometry	See Description Below	N/A	2 nd semester only
Algebra II and Trigonometry	See Description Below	N/A	Year
Integrated II	See Description Below	N/A	Year
Integrated III	See Description Below	11, 12	Year
College Algebra	See Description Below	11, 12	Semester
College Pre-Calculus	See Description Below	10, 11, 12	Year
College Calculus	See Description Below	11, 12	Year

**** Denotes class that is NCAA approved.**

Math Flow Chart



CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: PRE-ALGEBRA**GRADE LEVEL: 9****PREREQUISITES: D or F in 8th grade Pre-Algebra, MAP test results, placement test scores as needed, and teacher recommendation****1 CREDIT***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA***COURSE DESCRIPTION:** This course will cover a review of fractions and decimals, along with operations on integers (without the use of a calculator). Further topics will include algebraic expressions and solving multi-step equations along with graphing linear functions.**CLASS: INTRODUCTION TO ALGEBRA****GRADE LEVEL: 9-11****PREREQUISITES: Placement test scores as needed, grades in previous math classes, MAP test results and teacher recommendation****1 CREDIT***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA***COURSE DESCRIPTION:** Introduction to Algebra is a course designed for students not quite ready for a full Algebra I class. Topics covered will include solving multi-step equations, linear functions, systems of equations/inequalities, exponential functions, and a foundation in polynomials. This class exposes students to algebraic concepts and prepares them to be more successful in Algebra I the following year.**CLASS: ALGEBRA I******GRADE LEVEL: N/A****PREREQUISITES: B or above in 8th grade Pre-Algebra, passed Intro to Algebra, teacher recommendation****1 CREDIT***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA***COURSE DESCRIPTION:** This course covers topics typically treated in a first-year Algebra course. Topics include, but not limited to, examination of basic algebra foundations, functions, solving equations and inequalities, linear, exponential and quadratic equations, polynomials, rational and radical expressions, systems of equations/inequalities, absolute value equations, and probability/data analysis. End-of-Course (EOC) Exam administered upon successful completion of course.**Minimum requirement for graduation.****CLASS: ALGEBRA IA****GRADE LEVEL: 9-12****PREREQUISITES: Grade of "F" in 1ST semester of Algebra I****.5 CREDIT (Semester 2)****COURSE DESCRIPTION:** This course is offered 2nd semester only for those students who were unsuccessful in first semester Algebra I. This course covers topics in the first semester of Algebra I. Topics included, but not limited to, examination of basic algebra foundations, functions, solving equations and inequalities, linear and exponential equations, and systems of equations/inequalities.**CLASS: ACCELERATED ALGEBRA I******GRADE LEVEL: 9****PREREQUISITES: B or above in both semesters of 8th grade Intro to Algebra or C in 8th grade Algebra I; MAP test results and teacher recommendation may be considered; students must maintain at least a C to stay in the class 2nd semester.****1 CREDIT***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA***COURSE DESCRIPTION:** This course covers topics that are found in a typical high school Algebra I course with more emphasis on higher depths of knowledge. Students will have already mastered basic fundamentals of algebra which will allow faster pacing, as well as more in-depth application of algebraic principles. End-of-Course (EOC) Exam administered upon successful completion of course.**CAREER PATH CODES**AC= Arts & Communication
HUS= Human ServicesBMT= Business Management/Technology
IET= Industrial/Engineering TechnologyHLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: GEOMETRY****GRADE LEVEL: N/A****PREREQUISITES: B or above in both semesters of Algebra I; C in Algebra I with teacher recommendation; Algebra I EOC score considered****1 CREDIT***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA***COURSE DESCRIPTION:** This course will emphasize calculating and applying postulates and theorems to find measurements of length, circumference, area, and volume. Major topics covered in this course will include: Geometry foundations, constructions, coordinate geometry, polygon congruence and similarity, quadrilaterals, right triangles, and trigonometry, circles, solids, and transformations. This course will also introduce logic and reasoning to create basic proofs.**CLASS: ACCELERATED GEOMETRY******GRADE LEVEL: 9, 10****PREREQUISITES: B or above in both semesters of Accelerated Algebra I or 8th grade Algebra I or A's in freshman Algebra I with teacher recommendation; student must maintain at least a C to stay in the class 2nd semester. Algebra I EOC score considered****1 CREDIT***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA***COURSE DESCRIPTION:** This course will emphasize calculating and applying postulates and theorems to find measurements of length, circumference, area, and volume. Major topics covered in this course will include: Geometry foundations, constructions, coordinate geometry, polygon congruence and similarity, quadrilaterals, right triangles, and trigonometry, circles, solids, and transformations. This course will also examine logic and reasoning with heavy emphasis on proofs and application of higher levels of algebra.**CLASS: ALGEBRA II******GRADE LEVEL: N/A****PREREQUISITES: C or above in Geometry or B or above both semesters of Integrated III. Student must maintain at least a C to stay in the class 2nd semester.****1 CREDIT***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA***COURSE DESCRIPTION:** Algebra II consists of a comprehensive review and expansion of the topics discussed in Algebra I including but not limited to: data analysis and statistics, linear, quadratic, and polynomial functions, complex numbers, as well as radical, exponential, logarithmic, and rational functions. Systems of equations, matrices, and conic sections will also be introduced. Two of the major goals of the course are to prepare students for the ACT exam and College Algebra. End-of-Course (EOC) Exam administered upon successful completion of course if Algebra I EOC was taken prior to high school.**CLASS: MATH ANALYSIS******GRADE LEVEL: 10, 11, 12****PREREQUISITES: Passed Algebra II or Algebra 2 & Trig with teacher recommendation****.5 CREDIT***CAREER PATHWAY CODE: HLS, IET***COURSE DESCRIPTION:** This course is a bridge between Algebra II and either Trigonometry or College Algebra. Algebra II concepts will be reviewed and extended to include exponential and logarithmic functions and relations, rational functions and relations, and conic sections. This is a 1st semester course.**CLASS: TRIGONOMETRY******GRADE LEVEL: 10, 11, 12****PREREQUISITES: Passed Math Analysis or College Algebra****.5 CREDIT***CAREER PATHWAY CODE: HLS, IET***COURSE DESCRIPTION:** This course will examine trigonometric functions, identities, and equations as well as advanced examination of statistics and probability. This course should be taken in preparation of a college level precalculus class. This is a 2nd semester course.**CAREER PATH CODES**AC= Arts & Communication
HUS= Human ServicesBMT= Business Management/Technology
IET= Industrial/Engineering TechnologyHLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: ALGEBRA II AND TRIGONOMETRY****GRADE LEVEL: N/A****PREREQUISITES: B or above both semesters of Accelerated Geometry or dual enrollment in Accelerated Geometry with teacher recommendation or A's in both Geometry and Algebra I. Students must maintain at least a C to stay in the class 2nd semester.****1 CREDIT***CAREER PATHWAY CODE: HLS, IET***COURSE DESCRIPTION:** Algebra II & Trigonometry consists of a comprehensive review and expansion of the topics discussed in Algebra I including but not limited to: data analysis and statistics, linear, quadratic, and polynomial functions, complex numbers, as well as radical, exponential, logarithmic, and rational functions. Systems of equations, matrices, and conic sections, as well as trigonometric functions, identities, and equations will also be explored in-depth. Two of the major goals of the course are to prepare students for the ACT exam and College Algebra or College PreCalculus. End-of-Course (EOC) Exam administered upon successful completion of course if Algebra I EOC was taken prior to high school.**CLASS: INTEGRATED II******GRADE LEVEL: N/A****PREREQUISITES: Algebra I with teacher recommendation; Alg 1 EOC score may be considered****1 CREDIT***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA***COURSE DESCRIPTION:** Integrated II is an integrated mathematics course that will expand on topics of Algebra I including polynomials, quadratic equations, and comparison of linear, exponential, and quadratic functions, as well as introduce geometric concepts including: basics tools of Geometry, logic and reasoning, parallel and perpendicular lines, triangle relationships, and quadrilaterals.**CLASS: INTEGRATED III******GRADE LEVEL: 11, 12****PREREQUISITES: Integrated II or Geometry with teacher recommendation****1 CREDIT***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA***COURSE DESCRIPTION:** Integrated III is an integrated mathematics course that will include both geometric concepts (quadrilaterals, proportions and similarity, right triangles and trigonometry, transformations and symmetry, and circles) as well as the introduction of Algebra II concepts (data analysis and statistics, linear and quadratic functions, and complex numbers).**CLASS: COLLEGE ALGEBRA******GRADE LEVEL: 10, 11, 12, .025 Weighted****PREREQUISITES: 3.0 GPA, B or above in Math Analysis, C or above in Trig or Algebra 2/Trig, teacher recommendation from Algebra II; If student has a 2.8/2.9 GPA, student must have an ACT Reading Score of 18+ and a ACT Math Score of 22+ OR Accuplacer Next Gen Reading Score of 246 and Adv Algebraic Functions of 245.****.5 CREDIT***CAREER PATHWAY CODE: BMT, HLS, HUS, IET***COURSE DESCRIPTION:** College Algebra explores several non-sequential algebraic topics within the realms of both the real number system and the complex number system. The study of functions covers linear, quadratic, polynomial, rational, exponential, and logarithmic. In addition, problems involving application, graphs, and modeling are explored, including inequalities. Systems of equations include, but are not limited to, linear systems of 2 and 3 variables, matrices and matrix operations. **Dual credit class for 3 credit hours of Jefferson College credit with a passing grade.****CAREER PATH CODES**AC= Arts & Communication
HUS= Human ServicesBMT= Business Management/Technology
IET= Industrial/Engineering TechnologyHLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: COLLEGE PRE-CALCULUS****GRADE LEVEL: 10, 11 or 12, .025 Weighted****PREREQUISITES: 3.0 GPA, B or above in Trig or Algebra 2/Trig; If student has a 2.8/2.9 GPA, student must have an ACT Reading Score of 18+ and a ACT Math Score of 22+ OR Accuplacer Next Gen Reading Score of 246 and Accuplacer Next Gen Advanced Algebra and Functions score or 250+.****1 CREDIT***CAREER PATHWAY CODE: HLS, IET*

COURSE DESCRIPTION: This course is a bridge between secondary and college mathematics. Advanced algebra and trigonometric concepts are reviewed and extended. The graphing calculator is used to graph functions and perform data analysis. Topics include: trigonometric identities, trigonometric functions including inverse functions, graphing and translations, De Moivre's Theorem, sequences and series, matrices, polynomial functions, rational roots theorem, conics, and logarithmic inequalities. **Dual credit class for 5 credit hours of Jefferson College credit with a passing grade. If you do not meet the requirements above, you may take this course for high school credit only; college credit will not be issued.**

CLASS: COLLEGE CALCULUS I****GRADE LEVEL: 11, 12, .025 Weighted****PREREQUISITES: 3.0 GPA, (27 Math ACT) and full year of Pre-Calculus (C or above); If completed Pre-Calculus for college credit and earned a C or better, student automatically meets the Calculus prerequisite and does not need the ACT score.****1 CREDIT***CAREER PATHWAY CODE: HLS, IET*

COURSE DESCRIPTION: Calculus 1 is an introduction to differential and integral calculus of one variable. Calculus 1 covers limits, continuity, differentiation, and integration. The study of differentiation covers exponential functions, trigonometric functions, rational functions, and the chain rule. Also included in this course are applications of differentiation including velocity, acceleration, maxima, minima, and optimization problems. Applications of integration include area and volume of revolution. **Dual credit class for 5 credit hours of Jefferson College credit with a passing grade. If you do not meet the requirements above, you may take this course for high school credit only; college credit will not be issued.**

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

FOREIGN LANGUAGE

Course Title	Prerequisite	Grade Level	Sem/Year
French I	None	9, 10, 11, 12	Year
French II	French I (C or above)	10, 11, 12	Year
French III	French II (B or above)	11, 12	Year
French IV	French III (B or above)	12	Year
Spanish I	None	9, 10, 11, 12	Year
Spanish II	Spanish I (C or above)	10, 11, 12	Year
Spanish III	Spanish II (B or above)	11, 12	Year
Spanish IV	Spanish III (B or above)	12	Year

**** Denotes class that is NCAA approved.**

CLASS: FRENCH I**

GRADE LEVEL: 9-12

PREREQUISITES: None

1 CREDIT

CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA

COURSE DESCRIPTION: An introductory course designed to help students (1) develop fundamental skills in listening, speaking, reading, and writing in French, gaining insight into the basic components of language and communication and (2) acquire some knowledge of French-speaking cultures through the textbook and supplementary material.

CLASS: FRENCH II**

GRADE LEVEL: 10-12

PREREQUISITES: French I (C or above)

1 CREDIT

CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA

COURSE DESCRIPTION: An intermediate course designed to help students (1) develop further skills in listening, speaking, reading, and writing in French, gaining insight into the basic components of language and communication and (2) acquire additional knowledge of French-speaking culture and history through the textbook and supplementary materials.

CLASS: FRENCH III**

GRADE LEVEL: 11 or 12

PREREQUISITES: French II (B or above)

1 CREDIT

CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA

COURSE DESCRIPTION: An advanced course consisting of a complete review of basic vocabulary and grammatical structures, plus an introduction to French literature and art.

CLASS: FRENCH IV**

GRADE LEVEL: 12

PREREQUISITES: French III (B or above)

1 CREDIT

CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA

COURSE DESCRIPTION: An advanced course consisting of a complete review of basic grammar, introduction of advanced grammar, advanced reading, and advanced writing skills.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: SPANISH I****GRADE LEVEL: 9-12****PREREQUISITES: None****1 CREDIT***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA*

COURSE DESCRIPTION: An introductory course designed to help students (1) develop fundamental skills in listening, speaking, reading, and writing in Spanish, gaining insight into the basic components of language and communication and (2) acquire knowledge of Spanish-speaking cultures and perspectives.

CLASS: SPANISH II****GRADE LEVEL: 10-12****PREREQUISITES: Spanish I (C or above)****1 CREDIT***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA*

COURSE DESCRIPTION: An introductory course designed to help students (1) develop further skills in listening, speaking, reading, and writing in Spanish, gaining insight into the basic components of language and communication and (2) acquire additional knowledge of Spanish-speaking cultures through the textbook and supplementary material.

CLASS: SPANISH III****GRADE LEVEL: 9-12****PREREQUISITES: Spanish II (B or above)****1 CREDIT***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA*

COURSE DESCRIPTION: An advanced course consisting of a complete review of basic vocabulary and grammatical structures, plus an introduction to Spanish literature and art.

CLASS: SPANISH IV****GRADE LEVEL: 12****PREREQUISITES: Spanish III (B or above)****1 CREDIT***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA*

COURSE DESCRIPTION: An advanced course consisting of complete review of basic grammar, introduction of advanced grammar, advanced reading, and advanced writing skills.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

Practical Arts (Business)

Course Title	Prerequisite	Grade Level	Sem/Year
Career Opportunities	None	9, 10, 11, 12	Semester
Marketing Essentials	None	9, 10, 11, 12	Semester
Computer Applications	None	9, 10, 11, 12	Semester
Multimedia	Computer Applications (C or above)	9, 10, 11, 12	Semester
Graphic Arts	Multimedia (C or above)	10, 11, 12	Semester
Programming-JAVA	Algebra I (C or above)	11, 12	Semester
Website Development	Computer Applications	10, 11, 12	Semester
Personal Finance	None	10, 11, 12	Semester
Business Law	None	10, 11, 12	Semester
Business of Social Media	None	9, 10, 11, 12	Semester
Accounting I	None	10, 11, 12	Year
Accounting II	Accounting I (C or above)	11, 12	Year
Business Management	None	10, 11, 12	Semester
CCE	Application	12	Year
CCE Supervision	Application	12	Year
Introduction to Business	See Description Below	11, 12	Semester

CLASS: CAREER OPPORTUNITIES

GRADE LEVEL: 9-12

PREREQUISITES: None

.5 CREDIT

CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA

COURSE DESCRIPTION: This class is an activity-based course designed for college and non-college bound students.

Information is given to help students make a more educated decision on their career path. Additionally, each individual will receive interest and personality assessments to help determine a direction. All students will prepare a resume, cover letter, fill out an application and go over interview tips. Students will learn business math as it pertains to having employment. Audio-visual aids and guest speakers are options to help students explore different careers.

CLASS: MARKETING ESSENTIALS

GRADE LEVEL: 9-12

PREREQUISITES: None

.5 CREDIT

CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA

COURSE DESCRIPTION: An instructional program for students who are interested in a career in the field of marketing and management. This course includes instructional areas designed to provide an understanding of the fundamental marketing processes (product, price, place, and promotion) and an orientation to the American free enterprise system. This course could lead to a placement in the CCE program as a senior.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: COMPUTER APPLICATIONS**GRADE LEVEL: 9-12****PREREQUISITES: None****.5 CREDIT***CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA***COURSE DESCRIPTION:** After completing this course, students will be able to understand the basic principles of Microsoft Word, Excel, PowerPoint, and Access.**CLASS: MULTIMEDIA****GRADE LEVEL: 9-12****PREREQUISITES: Computer Applications (C or above)****.5 CREDIT***CAREER PATHWAY CODE: AC, BMT***COURSE DESCRIPTION:** Students will work with a variety of multimedia software to develop electronic presentations. They will learn how to manipulate text, art and graphics, photography, animation, audio, and video for presentations in various media formats.**CLASS: GRAPHIC ARTS****GRADE LEVEL: 10-12****PREREQUISITES: Computer Applications (C or above)****.5 CREDIT***CAREER PATHWAY CODE: AC, BMT***COURSE DESCRIPTION:** Students develop proficiency in using graphic arts/desktop publishing software to create a variety of business and personal publications such as flyers, brochures, newsletters, invitations, etc. Students will use Word, Photoshop, Publisher, and other publishing software to create materials.**CLASS: PROGRAMMING-JAVA****GRADE LEVEL: 11-12****PREREQUISITES: Algebra I (C or above)****.5 CREDIT***CAREER PATHWAY CODE: BMT***COURSE DESCRIPTION:** Students will be introduced to the programming language JAVA. They will learn how to design the program interface and code the application. While coding, they will gain an understanding of variables and constants, calculations, and decisions and conditions.**CLASS: WEBSITE DEVELOPMENT****GRADE LEVEL: 9-12****PREREQUISITES: Computer Applications (Multimedia recommended)****.5 CREDIT***CAREER PATHWAY CODE: AC, BMT***COURSE DESCRIPTION:** Students will design websites using HTML5 and CSS code. They will be introduced to the setup and functions of a website and will also create their own website using basic tags, links, and graphics. Students will also be introduced to designing web pages using Dreamweaver software.**CLASS: PERSONAL FINANCE****GRADE LEVEL: 10-12****PREREQUISITES: None****.5 CREDIT***CAREER PATHWAY CODE: BMT***COURSE DESCRIPTION:** Subjects discussed during this course include: budgeting, financial planning, banking and their services, money management, checking and savings accounts, credit cards, taxes, health insurance, saving and investing, business ethics, consumer purchasing and protection, career interests and opportunities. **This class meets the state requirements for graduation.****CAREER PATH CODES**AC= Arts & Communication
HUS= Human ServicesBMT= Business Management/Technology
IET= Industrial/Engineering TechnologyHLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: BUSINESS LAW**GRADE LEVEL: 10-12****PREREQUISITES: None****.5 CREDIT***CAREER PATHWAY CODE: BMT*

COURSE DESCRIPTION: Business Law introduces students to the legal system. Instruction focuses on consumer law, rights and responsibilities of adults and minors, criminal law, tort law, and contracts.

CLASS: BUSINESS OF SOCIAL MEDIA**GRADE LEVEL: 9-12****PREREQUISITES: None****.5 CREDIT***CAREER PATHWAY CODE: BMT*

COURSE DESCRIPTION: Business of Social Media will cover a range of topics, including social media marketing, content creation, analytics, community management, and more. Classes will offer practical exercises, hands-on projects, or case studies to help students apply their knowledge. Regular assessments and feedback on students' work would be given to help them improve their social media skills. This could include feedback on social media campaigns, content creation, or other assignments.

CLASS: ACCOUNTING I**GRADE LEVEL: 10-12****PREREQUISITES: None****1 CREDIT***CAREER PATHWAY CODE: BMT*

COURSE DESCRIPTION: This class is designed to build a basic understanding of manual and automated accounting principles, concepts, and procedures. Activities include the accounting equation, the accounting cycle, entering transactions in journals, posting to ledgers, preparing end-of-period statements and reports, payroll systems, banking activities, taxes, and other related topics.

CLASS: ACCOUNTING II**GRADE LEVEL: 11-12****PREREQUISITES: Accounting I (C or above)****1 CREDIT***CAREER PATHWAY CODE: BMT*

COURSE DESCRIPTION: Accounting II provides a thorough, in depth knowledge of manual and automated 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 corporate forms of organization, preparing formal statements and supporting schedules, and using inventory and budgetary control systems.

CLASS: BUSINESS MANAGEMENT: SPORTS AND ENTERTAINMENT**GRADE LEVEL: 10-12****PREREQUISITES: None****.5 CREDIT***CAREER PATHWAY CODE: BMT, HUS*

COURSE DESCRIPTION: Business Management: Sports and Entertainment is a business survey course covering the major business topics of management, marketing, finance, and economics as related to the field of sports and entertainment.

CLASS: COOPERATIVE CAREER EDUCATION (CCE)**GRADE LEVEL: 12****PREREQUISITES: Application****1 CREDIT**

COURSE DESCRIPTION: Cooperative Career Education is a career and technical education program based on the cooperative education method of instruction. The program serves students with a wide variety of career interests,

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

including careers not traditionally considered “vocational.” Academic study is combined with paid, supervised employment in a career area of interest. CCE provides students the opportunity to learn knowledge and skills in the classroom and to apply and test that learning in the workplace. Students develop transferable employability skills and occupational competence which will serve them throughout their continuing education and career.

CLASS: COOPERATIVE CAREER EDUCATION SUPERVISION

GRADE LEVEL: 12

PREREQUISITES: Enrolled in CCE

1 or 2 CREDITS

COURSE DESCRIPTION: Cooperative Career Education Supervision is the work based component of the CCE program. A student must be employed at least 10 hours per week to receive 1 credit and 20 hours per week to receive 2 credits. Students will perform assigned tasks on the job and assignments from the classroom as part of the program. All hours must be documented and pay must be subject to state and federal taxes.

CLASS: INTRODUCTION TO BUSINESS

GRADE LEVEL: 11-12

PREREQUISITES: 3.0 GPA (No ACT scores required); If student has a 2.8/2.9 GPA must have an ACT English and Reading Score of 18+ OR Accuplacer Next Gen Reading of a 246+.

.5 CREDIT

COURSE DESCRIPTION: A business survey course covering the major business topics (i.e., globalization, economics, government, and society) and an introduction to the key functional areas such as marketing, operations, accounting, finance management, and human resources. Students will use this introductory course to learn about the business landscape, to evaluate a potential interest in a business degree program and to begin career planning. **Dual credit class for 3 credit hours of Jefferson College credit will be issued with a passing grade.**

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

Practical Arts

(Family and Consumer Science)

Course Title	Prerequisite	Grade Level	Sem/Year
Foods I	None	9, 10, 11, 12	Semester
Foods II	Foods I (C or above)	9, 10, 11, 12	Semester
International Foods	Foods I (C or above)	10, 11, 12	Semester
Nutrition/Wellness	Foods I (C or above)	10, 11, 12	Semester
Fashion and Apparel	None	9, 10, 11, 12	Semester
Fashion and Apparel II	Fashion and Apparel (C or above)	10, 11, 12	Semester
Child Development	None	10, 11, 12	Semester
Child Development II	Child Development (C or above)	11, 12	Semester
Family Living	None	9, 10, 11, 12	Semester
Housing and Interior Design	None	9, 10, 11, 12	Semester

CLASS: FOODS I**GRADE LEVEL: 9-12****PREREQUISITES: None****.5 CREDIT***CAREER PATHWAY CODE: HLS, HUS*

COURSE DESCRIPTION: This course students will learn basic cooking skills to be able to live independently by preparing meals for independent living and family life. These skills students will master food safety and serving procedures. Students will learn the importance of kitchen basics. Students will focus on The Art of Cooking such as using recipes to develop a work plan. Students will master the basic importance of food preparation and complete a thematic project based on The Art of Baking. This course will help students gain employability skills by having students research careers in the Health Services and Health Path, participate in cooking labs and learn the importance of teamwork.

CLASS: FOODS II**GRADE LEVEL 9-12****PREREQUISITES: Foods I (C or above)****.5 CREDIT***CAREER PATHWAY CODE: HLS, HUS*

COURSE DESCRIPTION: This course students will understand the basics of food marketing and building relationships with customers. Students will demonstrate proper use of a variety of cooking techniques, learn the importance of teamwork in a commercial kitchen, have the opportunity to research careers in the culinary field, participate in cooking labs and learn leadership skills. This course will also give students the opportunity to talk with professionals in food service such as dietitians, chefs and professional caterers as well as small business owners. Students will plan and complete a thematic project based on information they gather from this course. They will continue to demonstrate and apply kitchen safety, food safety and sanitation procedures.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: INTERNATIONAL FOODS**GRADE LEVEL 10-12****PREREQUISITES: Foods I (C or above)****.5 CREDIT***CAREER PATHWAY CODE: HLS, HUS*

COURSE DESCRIPTION: In this course students will demonstrate cooking techniques from different cultures and ethnic groups from around the world. International Foods students will study, explore the country's demographics. Students will analyze factors that influence nutrition and food choices around the world, describe physical and human characteristics that make specific places unique, and demonstrate proper food preparation methods and techniques. Students will demonstrate and apply kitchen safety, food safety and sanitation procedures.

CLASS: NUTRITION AND WELLNESS**GRADE LEVEL: 10-12****PREREQUISITES: Foods I (C or above)****.5 CREDIT***CAREER PATHWAY CODE: HLS, HUS*

COURSE DESCRIPTION: A program that prepares individuals to understand the principles of nutrition; the relationship of nutrition to health; and the selection, preparation, and care of food. A diet analysis and a handful of cooking labs are an integral part of this class.

CLASS: FASHION AND APPAREL**GRADE LEVEL: 9-12****PREREQUISITES: None****.5 CREDIT***CAREER PATHWAY CODE: HUS, AC*

COURSE DESCRIPTION: This course is designed for the student who is interested in learning more about their own style of fashion, the history of fashion, and the study of textiles and design elements and principles. Students will also learn hand sewing basics and how to use a sewing machine. Students will be creating a minimum of 3 clothing projects. Sewing projects will be an added cost to the student.

CLASS: FASHION AND APPAREL II**GRADE LEVEL: 10-12****PREREQUISITES: Fashion and Apparel (C or above)****.5 CREDIT***CAREER PATHWAY CODE: HUS, AC*

COURSE DESCRIPTION: Fashion and Apparel II will place an emphasis on design, sewing, and apparel management. Fashion and Apparel II will allow students to become fully proficient in hand sewing and basic machine sewing, and those students who excel will have the opportunity to move on to more advanced projects in the second level of the course.

CLASS: CHILD DEVELOPMENT**GRADE LEVEL: 10-12****PREREQUISITES: None****.5 CREDIT***CAREER PATHWAY CODE: HLS, HUS*

COURSE DESCRIPTION: A course that covers reproduction, prenatal development, pregnancy, childbirth, infant care, and development of the preschool child. Parenting being a choice and a large responsibility is a major focus of this course. Major assignments include a parenting and pregnancy simulation.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: CHILD DEVELOPMENT II**GRADE LEVEL: 11-12****PREREQUISITES: Child Development (C or above)****.5 CREDIT***CAREER PATHWAY CODE: HLS, HUS*

COURSE DESCRIPTION: A course available to students interested in the area of early childhood education or elementary education. This course will cover preschool through age 8. Students will lead and develop many hands-on activities, create and implement lesson plans, as well as partake in observations. Additional cost may be added for field trips.

CLASS: FAMILY LIVING**GRADE LEVEL: 9-12****PREREQUISITES: None****.5 CREDIT***CAREER PATHWAY CODE: HUS, HLS*

COURSE DESCRIPTION: A course that prepares individuals to understand the nature, function, and significance of the human relationships within the family/individual units. Major assignments include: presentations, posters, and other projects which center on the student's personal opinions.

CLASS: HOUSING AND INTERIOR DESIGN**GRADE LEVEL: 9-12****PREREQUISITES: None****.5 CREDIT***CAREER PATHWAY CODE: BMT, HLS, HUS, IET*

COURSE DESCRIPTION: This course instruction focuses on the history of housing, residential architecture, renting and buying a home, and the basic design elements and principles. Students will complete at least one major project that will include drawing floor plans and selecting appropriate materials for a home's interior. The final will be constructing a project utilizing information learned throughout the class.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

Practical Arts

(Industrial Technology)

Course Title	Prerequisite	Grade Level	Sem/Year
Intro to Industrial Technology	None	9, 10, 11, 12	Semester
Construction Practices	Intro to Industrial Tech (C or above)	10, 11, 12	Semester

CLASS: INTRO TO INDUSTRIAL TECHNOLOGY

GRADE LEVEL: 9-12

PREREQUISITES: None

.5 CREDIT

COURSE DESCRIPTION: This is an introductory course that will cover a variety of topics including shop and tool safety, understanding, how to read a tape measure, how to use a scale ruler, basic blueprint reading and drawing. Students will produce a set of drawings for a small project then build it in the shop (the project must be instructor approved). Concept areas will cover sketching, measurements, geometric construction and dimensional design. Students will have the opportunity to assist in building the theatrical set for the fall and spring play. Students will have the opportunity to produce multiple projects during the semester. There will be a fee of \$10 for this course which will cover supplies needed for the projects.

CLASS: CONSTRUCTION PRACTICES (Building Maintenance and Home Repair)

GRADE LEVEL: 10 - 12

PREREQUISITE: INTRO TO INDUSTRIAL TECHNOLOGY (C or Above)

0.5 CREDIT

COURSE DESCRIPTION: Construction Practices provides students with the opportunity to experience and explore the many different areas in repair and maintenance that relate to building and owning a home. This course will allow students to develop essential life skills to foster independence in maintaining or updating a residential structure. Students will learn and practice many different home repair procedures and techniques. Students will also have the opportunity to assist in building the theatrical set for the fall and spring play. Possible topics include portable power tool safety, electrical wiring, basic wall framing, and other related topics. Students will produce one project during the semester. There will be a fee of \$10 for this course which will cover supplies needed for the projects.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

FINE ARTS

(Art)

Course Title	Prerequisite	Grade Level	Sem/Year
Art I	None	9, 10, 11, 12	Year
Photography	None	10, 11, 12	Semester
Pottery	None	10, 11, 12	Semester
Painting and Drawing	Art I (C or above)	10, 11, 12	Semester
Sculpture	Art I (C or above)	10, 11, 12	Semester

CLASS: ART I**GRADE LEVEL: 9-12****PREREQUISITES: None****1 CREDIT***CAREER PATHWAY CODE: AC*

COURSE DESCRIPTION: Art I is a basic one-year survey course which is a prerequisite of the advanced level art classes. The course includes an introduction to art history as it pertains to the various units of study. Activities will focus on hands-on projects in drawing (pencil/charcoal), perspective, various black and white media (pen/ink/scratchboard), color theory, color media (pastels/tempera paint) and clay pottery (pinch pot/clay structures). Students will be responsible for a \$20 art fee. The fee will cover supplies needed for this course.

CLASS: POTTERY**GRADE LEVEL: 10-12****PREREQUISITE: None****0.5 CREDIT***CAREER PATHWAY CODE: AC*

COURSE DESCRIPTION: This is a beginning course in ceramics. This course introduces students to building with clay. Emphasis will be placed on the design elements; line, shape, texture, and color. Focus will be on the hand building techniques; pinch, coil and slabs. Functional as well as sculptural applications will be explored. Introduction to traditional and historical ceramic arts will be incorporated into the lab experiences. Students will be introduced to the craft of wheel thrown pottery on a limited basis. Various glaze and decoration techniques for finishing work will be introduced in the beginning class. . Students will be responsible for a \$20 art fee. The fee will cover supplies needed for this course.

CLASS: PHOTOGRAPHY**GRADE LEVEL: 10-12****PREREQUISITE: None****0.5 CREDIT***CAREER PATHWAY CODE: AC*

COURSE DESCRIPTION: This course covers basic concepts and practice of digital photography, including understanding and use of the camera, lenses, and other basic photographic equipment. The course will address aesthetic principles as they relate to composition, space, exposure, light and color. Technological requirements of digital formats will be addressed, such as formats and resolution. Basic digital manipulations of images will be taught in preparation for creating a photo portfolio of images. Class attendance and participation is very important in this course.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: PAINTING AND DRAWING**GRADE LEVEL: 10-12****PREREQUISITE: Art I (C or Above)****0.5 CREDIT***CAREER PATHWAY CODE: AC*

COURSE DESCRIPTION: This will be a semester-long course offered as 0.5 fine art credit. Students will explore a variety of new materials and techniques in which they will create drawing and painting in the 2D form. Students will explore media such as watercolor, ink, and acrylic paints for painting and graphite, colored pencil and charcoal for drawing. Students will be graded based on rubrics aligned to the State Standards. . Students will be responsible for a \$15 art fee. The fee will cover supplies needed for this course.

CLASS: SCULPTURE**GRADE LEVEL: 10-12****PREREQUISITE: Art I (C or Above)****0.5 CREDIT***CAREER PATHWAY CODE: AC*

COURSE DESCRIPTION: This will be a semester-long course offered as 0.5 fine art credit. Students will explore a variety of new materials and techniques in which they will create sculptures in the three dimensional form. Students will learn about historical and contemporary concepts ranging from representational figures to abstract forms. Some materials students will use may be clay, wood, metal, cloth, paper, and plaster. Students will be graded based on rubrics aligned to the State Standards. . Students will be responsible for a \$15 art fee. The fee will cover supplies needed for this course.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

FINE ARTS

(Choir/Band/Music Education)

Course Title	Prerequisite	Grade Level	Sem/Year
Marching Band	Audition	9, 10, 11, 12	1 ST Semester
Symphonic Band	Audition	9,10,11,12	2 ND Semester
Concert Band	Prior Instrumental Experience	9, 10, 11, 12	Year
Jazz Ensemble	Audition	9*, 10, 11, 12	Year
Jazz Lab	Prior Instrumental Experience	9, 10, 11, 12	Year
Music Appreciation	None	9, 10, 11, 12	Semester
Guitar	None	9, 10, 11, 12	Semester
Stage/Film/Video	None	9, 10, 11, 12	Semester
Men's Choir	None	9, 10, 11, 12	Year
Women's Choir	None	9, 10, 11, 12	Year
Concert Choir	Audition	9, 10, 11, 12	Year
Chamber Choir	See Description Below	8, 10, 11, 12	Year
Singer/Songwriter	Audition	9, 10, 11, 12	Semester

CLASS: MARCHING BAND**GRADE LEVEL: 9-12****PREREQUISITES: Audition****.5 CREDIT (Semester 1)***CAREER PATHWAY CODE: AC*

COURSE DESCRIPTION: Marching Band is composed of students in grades 9-12 who have satisfactorily completed auditions for the course. The Marching Band represents the school district as the De Soto Dragon Pride Marching Band in the fall semester. This ensemble represents the school at local concerts and parades, home football and basketball games, and local/regional marching festivals. Participation in this ensemble includes performing at MSHSAA events. Students not meeting MSHSAA academic eligibility requirements will not be permitted to participate in this ensemble. Attendance at all performances is required and part of the class grade as covered in the De Soto Bands Handbook and syllabus for the course. This course requires participation outside the school day.

CLASS: SYMPHONIC BAND**GRADE LEVEL: 9-12****PREREQUISITES: Audition****.5 CREDIT (Semester 2)***CAREER PATHWAY CODE: AC*

COURSE DESCRIPTION: Symphonic Band builds on the fundamentals taught in Concert Band by providing instruction in advanced ensemble techniques. Enrollment in the Symphonic Band is based on auditions and the director's recommendation. Participation in this ensemble includes performing at MSHSAA events. Students not meeting MSHSAA academic eligibility requirements will not be permitted to participate in this ensemble. This ensemble also performs at several Pep Assemblies and basketball games during the Spring semester. Attendance at all performances is required and part of the class grade as covered in the De Soto Bands Handbook and syllabus for the course. Students in this band must have satisfactorily completed previous band instruction. This course requires out-of-school participation.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: CONCERT BAND**GRADE LEVEL: 9-12****PREREQUISITES: Prior Instrumental Experience****1 CREDIT***CAREER PATHWAY CODE: AC*

COURSE DESCRIPTION: Concert Band is composed of students in grades 9-12 who are performing on a wind or percussion instrument in a concert setting. Students enrolled in this course work on developing their musical ability through ensemble performance. The Concert Band represents the school at local concerts and festivals. Attendance at all performances is required and part of the class grade as covered in the De Soto Bands Handbook and syllabus for the course. This course requires limited out-of-school participation.

CLASS: JAZZ ENSEMBLE**GRADE LEVEL: 9*-12****PREREQUISITES: Audition****1 CREDIT***CAREER PATHWAY CODE: AC*

COURSE DESCRIPTION: Jazz Ensemble is composed of students in grades 9*-12 who are also enrolled in an additional band course. *Freshmen students will be accepted only in emergencies, due to scheduling constraints. Jazz Ensemble allows students to explore innovative styles of instrumental techniques utilized in American jazz and jazz-driven mediums. This band fosters creativity through improvisation and serves as a basis for music vocations and avocations. Jazz Ensemble represents the school at local concerts, events, and jazz local/regional jazz festivals. Participation in this ensemble includes performing at MSHSAA events. Students not meeting MSHSAA academic eligibility requirements will not be permitted to participate in this ensemble. Attendance at all performances is required and part of the class grade as covered in the De Soto Bands Handbook and syllabus for the course. This course requires out-of-school participation.

CLASS: JAZZ LAB**GRADE LEVEL: 9-12****PREREQUISITES: Prior instrumental experience. Enrollment in an additional band course is preferred.****1 CREDIT***CAREER PATHWAY CODE: AC*

COURSE DESCRIPTION: Jazz Lab allows students to explore innovative styles of instrumental techniques utilized in American Jazz and jazz-driven mediums. This band introduces the basic knowledge required to be successful in Jazz Ensemble. Students will gain valuable knowledge in improvisation, Jazz history, and performing in a combo. Jazz Lab represents the school at local concerts and local/regional jazz festivals. Attendance at all performances is required and part of the class grade as covered in the De Soto Bands Handbook and syllabus for the course. This course requires limited out-of-school participation.

CLASS: MUSIC APPRECIATION**GRADE LEVEL: 9-12****PREREQUISITES: None****.5 CREDIT***CAREER PATHWAY CODE: AC*

COURSE DESCRIPTION: This course covers a broad overview of the development of music through the study of various stylistic periods. General musical knowledge, as well as, basic theory skills will be learned. Music appreciation is the study of the materials, history, and performance of music in various world cultures.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: GUITAR**GRADE LEVEL: 9-12****PREREQUISITES: None****.5 CREDIT***CAREER PATHWAY CODE: AC*

COURSE DESCRIPTION: This course is designed for the beginning guitar student. The class is taught in a group setting with some individual responsibilities. Students will learn how to read music and play the guitar through rotation. No prior guitar experience is required. This class requires outside study and practice.

CLASS: STAGE/FILM/VIDEO**GRADE LEVEL: 9-12****PREREQUISITES: None****.5 CREDIT***CAREER PATHWAY CODE: AC*

COURSE DESCRIPTION: Stage and film provides the opportunity for students to explore the relationship between the musical, visual, and theatrical arts. The emphasis will be with regards to the connection and role of music for a variety of Stage and Film productions.

CLASS: MEN'S CHOIR**GRADE LEVEL: 9-12****PREREQUISITES: None****1 CREDIT***CAREER PATHWAY CODE: AC*

COURSE DESCRIPTION: Men's Choir is a performance class for men (Tenor/Bass). The course offers instruction in vocal performance as well as developing leadership, self-discipline and the ability to work cooperatively. Students will participate in several required concerts throughout the year. Participation in this ensemble includes performing at MSHSAA events. Students not meeting MSHSAA eligibility requirements will not be permitted to participate in those events and may be responsible for an alternate activity or assignment. This ensemble also performs at a number of football games, City Hall Tree Lighting Ceremony, and Concert during the Fall Semester. This ensemble performs at the State Large Ensemble Contest and a Spring concert. Attendance at all performances is required and part of the class grade as covered in the De Soto Choral Handbook. This course requires out of school participation.

CLASS: WOMEN'S CHOIR**GRADE LEVEL: 9-12****PREREQUISITES: None****1 CREDIT***CAREER PATHWAY CODE: AC*

COURSE DESCRIPTION: Women's Choir is a performance class for women (Soprano/Alto). The course offers instruction in vocal performance as well as developing leadership, self-discipline and the ability to work cooperatively. Students will participate in several required concerts throughout the year. Participation in this ensemble includes performing at MSHSAA events. Students not meeting MSHSAA eligibility requirements will not be permitted to participate in those events and may be responsible for an alternate activity or assignment. This ensemble also performs at a number of football games, City Hall Tree Lighting Ceremony, and Concert during the Fall Semester. This ensemble performs at the State Large Ensemble Contest and a Spring concert. Attendance at all performances is required and part of the class grade as covered in the De Soto Choral Handbook. This course requires out of school participation.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: CONCERT CHOIR**GRADE LEVEL: 9-12****PREREQUISITES: Audition***CAREER PATHWAY CODE: AC***1 CREDIT**

COURSE DESCRIPTION: Concert Choir is a select performance choir. The course offers advanced instruction in vocal performance as well as developing leadership, self-discipline, and the ability to work cooperatively. The choir performs high caliber music and represents the high school at competitions and festivals. Enrollment in Concert Choir is based on auditions and director's recommendation. Students will participate in several required concerts throughout the year. Participation in this ensemble includes performing at MSHSAA events. Students not meeting MSHSAA eligibility requirements will not be permitted to participate in those events and may be responsible for an alternate activity or assignment. This ensemble also performs at a number of football games, assemblies, City Hall Tree Lighting Ceremony, and Concert during the Fall Semester. In the Spring, this ensemble performs at a number of basketball games, the State Large Ensemble Contest, a Spring concert, and baccalaureate & graduation. Attendance at all performances is required and part of the class grade as covered in the De Soto Choral Handbook. This course requires out of school participation.

CLASS: CHAMBER CHOIR**GRADE LEVEL: 9-12****PREREQUISITES: Audition, enrollment in an additional music ensemble and director's recommendation.***CAREER PATHWAY CODE: AC***1 CREDIT**

COURSE DESCRIPTION: Chamber Choir is a select performance choir. The course offers advanced instruction in vocal performance as well as developing leadership, self-discipline, and the ability to work cooperatively. The choir performs high caliber music and represents the high school at competitions and festivals. Enrollment in Chamber Choir is based on participation in one of the large ensembles (Men's, Women's, or Concert Choir), auditions, and director's recommendation. Students will participate in several required concerts throughout the year. Participation in this ensemble includes performing at MSHSAA events. Students not meeting MSHSAA eligibility requirements will not be permitted to participate in those events and may be responsible for an alternate activity or assignment. This ensemble also performs at a number of football games, assemblies, City Hall Tree Lighting Ceremony, and Concert during the Fall Semester. In the Spring, this ensemble performs at a number of basketball games, the State Large Ensemble Contest, a Spring concert, and baccalaureate & graduation. Attendance at all performances is required and part of the class grade as covered in the De Soto Choral Handbook. This course requires out of school participation.

CLASS: SINGER/SONGWRITER**GRADE LEVEL: 9-12****PREREQUISITE:** See Mrs. Harris for audition information before leaving for Summer Break.*CAREER PATHWAY CODE: AC*

COURSE DESCRIPTION: In the course, Singer/Songwriter, students will learn about music that they like to sing! In this general music class, we will be looking at popular song techniques and creating our own music. Learn how to perform and sing your own music with a voice lab where you will get individualized vocal instruction. This course would be ideal if you are working on solos for a contest, musical auditions or talent show auditions. Enrollment in Singer/Songwriter is based on auditions and director's recommendation.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

FINE ARTS

(Drama/Theatre)

Course Title	Prerequisite	Grade Level	Sem/Year
Public Speaking	None	9, 10, 11, 12	Semester
Theatre Arts	None	9, 10, 11, 12	Year
Actor's Studio I	Theatre Arts (B or above)	10, 11, 12	Year
Repertory Theatre	Instructor's Approval	9, 10, 11, 12	Year

CLASS: PUBLIC SPEAKING

GRADE LEVEL: 9-12

PREREQUISITES: None

.5 CREDIT

CAREER PATHWAY CODE: BMT, HUS, AC

COURSE DESCRIPTION: This course is designed to give students communication skills essential to success in college and the workplace. Careers in our global economy require individuals to be creative, confident in presenting, capable of interacting with others socially, and proficient in professional oral and written communication. This class will help students to send clear messages, choose appropriate social behavior, acquire essential listening skills, develop strong problem solving strategies, obtain proper speaking skills, learn how to work well in a group setting, and gain self-confidence.

CLASS: THEATRE ARTS

GRADE LEVEL: 9-12

PREREQUISITES: None

1 CREDIT

CAREER PATHWAY CODE: AC

COURSE DESCRIPTION: This survey course is designed for both the student new to drama and the student with a general background in the theatre. The class will cover all aspects of the theatre: the play, the actor, and the audience. Group and individual work will be used to develop skills in movement, voice, story development, conflict building, characterizations, use of theatre terminology, application of production techniques, and theatre attendance followed by exercises in written and oral critiques, discussion of the elements of repertory theatre and the business of theatre. Improvisation, limited line memorization and play attendance required.

CLASS: ACTOR'S STUDIO I

GRADE LEVEL: 10- 12

PREREQUISITES: Theatre Arts (B or above)

1 CREDIT

CAREER PATHWAY CODE: AC

COURSE DESCRIPTION: This course will focus on the developing actor's ability to determine characterization through action, improvisation, analysis, motivation, creative movement, physicalization, vocal control, audition workshop, interpretation and staging through in-depth scene study. Although improvisation is used, the memorization of both monologues and duet acting scenes will be required as well as play attendance. Major contemporary playwrights used for scene study.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: REPERTORY THEATRE**GRADE LEVEL: 9- 12****PREREQUISITES: Instructor's Approval/Signature of Instructor required on registration form****1 CREDIT***CAREER PATHWAY CODE: AC*

COURSE DESCRIPTION: This course is an exploration of characterization through different methods and styles of acting, using classical literature. Students will analyze plays, and learn how to further analyze a character, through research and critical thinking. The focus of this class involves the producing of the school theatrical productions. Using the skills learned in previous theatre classes the students will work on both technical and performance aspects of the school's productions including; publicity, set design/ construction, costume design/construction, lighting, sound, makeup, and props as well as stage management and direction. Participants will gain an appreciation of theatre by attending and reviewing theatrical productions in the community. This is a laboratory course, which uses the theatrical production process as its experiment. Through the art of directing, acting and design, students will apply these concepts to a final production, to be presented to the school and public. When the school productions are completed for the year students will work on independent theatre projects. Time committed outside of school is *required*.

CAREER PATH CODES

AC= Arts & Communication
 HUS= Human Services

BMT= Business Management/Technology
 IET= Industrial/Engineering Technology

HLS= Health Services
 NRA= Natural Resources/Agriculture

PHYSICAL EDUCATION

Course Title	Prerequisite	Grade Level	Sem/Year
Physical Education	See Description Below	9, 10	Semester/Year
Health	None	9, 10, 11, 12	Semester
Strength Training	See Description Below	9, 10	Semester/Year
Men's Athletic Strength Training	See Description Below	9, 10, 11, 12	Semester/Year
Women's Athletic Strength Training	See Description Below	9, 10, 11, 12	Semester/Year
Sports Officiating	See Description Below	11, 12	Semester
Lifetime Sports	See Description Below	11, 12	Semester
Hunter Education and Safety	None	10, 11, 12	Semester

CLASS: PHYSICAL EDUCATION

GRADE LEVEL: 9-10, 11-12*

PREREQUISITES: None (*11-12 be allowed to enroll in the course if they have yet to fulfill their 1 credit required for graduation)

.5 or 1 CREDIT

CAREER PATHWAY CODE: HLS

COURSE DESCRIPTION: This course will provide the students with the opportunity to further develop their basic skills and be introduced to advanced skills in various sports and activities. History, rules, terms and strategies will be emphasized in each area along with appropriate competitive and cooperative attitudes. Social skills will be stressed throughout the year including team building activities. The principles of health-related and skill-related fitness will be used to assess the individual's personal fitness level. Injury prevention and personal health topics will be integrated throughout the course.

CLASS: HEALTH

GRADE LEVEL: 9-12

PREREQUISITES: None

.5 CREDIT

CAREER PATHWAY CODE: HLS

COURSE DESCRIPTION: Students will be presented information on how to make healthy decisions in their life. Subject areas will include mental health, good nutritional habits, and effects of physical fitness levels, substance abuse, and preventing diseases. Students will learn strategies to help them attain positive habits in each area.

CLASS: STRENGTH TRAINING

GRADE LEVEL: 9*, 10, 11, 12**

PREREQUISITES: *Incoming 9th grade students must play at least 1 sport plus have department chair approval ; 10 None; **11&12 will be allowed to enroll in the course if they have yet to fulfill their 1 credit required for graduation

.5 or 1 CREDIT

CAREER PATHWAY CODE: HLS

COURSE DESCRIPTION: The strength training course is designed to develop the student's muscular system. An active strength enhancing program will include a regimen of weightlifting, plyometrics, flexibility, and agility training. Weight room etiquette and safety training will also be incorporated.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: MEN'S ATHLETIC STRENGTH TRAINING**GRADE LEVEL: 9*, 10-12****PREREQUISITES: *Incoming 9th grade students must play at least 1 sport plus have department chair approval; 10th-12th grade male students must have been on a HS MSHSAA Athletic Roster the previous school year.****.5 or 1 CREDIT***CAREER PATHWAY CODE: HLS***COURSE DESCRIPTION:** This course is a strength-training system created for male athletes who want to compete successfully and advance their skills in their sport. Athletes will perform essential lifts such as squat, bench press, and power clean with perfect technique. Athletes will also enhance their speed and running technique through specific drills.**CLASS: WOMEN'S ATHLETIC STRENGTH TRAINING****GRADE LEVEL: 9*, 10-12****PREREQUISITES: *Incoming 9th grade students must play at least 1 sport plus department chair approval ; 10th-12th grade female students must have been on a HS MSHSAA Athletic Roster the previous school year.****.5 or 1 CREDIT***CAREER PATHWAY CODE: HLS***COURSE DESCRIPTION:** This course is a strength-training system created for female athletes who want to compete successfully and advance their skills in their sport. Athletes will perform essential lifts such as squat, bench press, and power clean with perfect technique. Athletes will also enhance their speed and running technique through specific drills.**CLASS: SPORTS OFFICIATING****GRADE LEVEL: 11&12****PREREQUISITES: Fulfillment of 1 Physical Education credit and .5 Health credit with a B or above in both.****.5 CREDIT***CAREER PATHWAY CODE: HLS***COURSE DESCRIPTION:** This course is designed for students who have completed their Physical Education/Health graduation requirements but would like the opportunity to build upon their skill development in terms of making appropriate calls based on the fundamental rules and procedures of a variety of MSHSAA sponsored sports. This course will also provide students with hands-on training in sports officiating that can lead to possible employment opportunities for them throughout their lifetime. After completion of the course, students should be prepared to obtain their officiant's license, if desired. If a student desires to obtain their license, they are responsible for the exam fee as well as making arrangements outside of school to take the exam.**CLASS: LIFETIME SPORTS****GRADE LEVEL: 11&12****PREREQUISITES: Fulfillment of 1 Physical Education credit and .5 Health credit with a B or above in both.****.5 CREDIT***CAREER PATHWAY CODE: HLS***COURSE DESCRIPTION:** This course is designed for students to continue to develop and improve the skills and knowledge necessary to participate successfully in a variety of lifetime sports. Students are expected to learn more advanced skills and strategies and demonstrate them in game situations. Lifetime sports/games/leisure activities that are included are: golf, badminton, pickleball, Frisbee golf, corn hole, table tennis, walking with pedometers, bocce ball, washers, bowling as well as additional recreational games. The components for this course will be in the advancement of knowledge introduced during physical education. Students will be assessed on their understanding of the rules specific for each sport/game and leisure activity.**CAREER PATH CODES**AC= Arts & Communication
HUS= Human ServicesBMT= Business Management/Technology
IET= Industrial/Engineering TechnologyHLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: HUNTER EDUCATION AND SAFETY

GRADE LEVEL: 10-12

PREREQUISITES: None

.5 CREDIT

CAREER PATHWAY CODE: HLS

COURSE DESCRIPTION: This course is designed for students to obtain hunter certification through the department of conservation. As well as an introduction to outdoor skills such as archery, trapping, hunting, angling, identification of animals and plants that relate to food sources for wildlife etc. First quarter, students will cover Hunter Education/Safety. Second quarter, students will explore National Archery in the Schools Program.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

GENERAL ELECTIVES

Course Title	Prerequisite	Grade Level	Sem/Year
Teacher Assistant	Application	12	Semester/Year
Office Assistant	Application	11, 12	Semester/Year
Study Hall	None	10, 11, 12	Semester/Year
A+ Tutoring	None	10, 11, 12	Semester/Year
Leadership	Application	10, 11, 12	Semester
Mass Media I	Application	9, 10, 11, 12	Year
Mass Media II	Mass Media I (C or Above)	10, 11, 12	Year
Mass Media III	Mass Media II (C or Above)	11, 12	Year
Cadet Teaching	Application	10, 11, 12	Semester
HiStep	Cadet Teaching (B or Above) and Application	11, 12	Semester
Broadcasting	None	10, 11, 12	Semester

CLASS: TEACHER ASSISTANT
GRADE LEVEL: 12
PREREQUISITES: Application
NO CREDIT
COURSE DESCRIPTION: Each teacher is allowed one/two student(s) to help with non-teaching duties during the day.

CLASS: OFFICE ASSISTANT
GRADE LEVEL: 11 or 12
PREREQUISITES: Application
1 CREDIT
COURSE DESCRIPTION: Students work in the different school offices gaining practice in various office type duties. Good attendance is required and attendance and performance are evaluated for the grade received. **This course is graded on a Pass/Fail system.**
CLASS: STUDY HALL
GRADE LEVEL: 10-12
PREREQUISITES: None
NO CREDIT
COURSE DESCRIPTION: Students may take a study hall to use as a time for academic studying.

CLASS: A+ TUTORING
GRADE LEVEL: 10-12
PREREQUISITES: None
.5 or 1 CREDIT
COURSE DESCRIPTION: This class is offered as an opportunity for sophomores, juniors and seniors to complete their tutoring hours for the A+ program and also receive a .5 credit or full elective credit. In order to be eligible, students must be enrolled in the A+ Program and must have attended an A+ tutoring/training session. All students must sign up for a study hall. The first week of school, students that would like to be taken out of study hall to complete their A+ hours will meet with Mrs. Schutte, A+ Coordinator, to be assigned a teacher unless one has already been assigned and approved. Students will be assigned to the Jr. High, Senior High, Vineland or Athena. **This course is graded on a Pass/Fail system.**

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: LEADERSHIP**GRADE LEVEL: 10-12****PREREQUISITES: 2.5 GPA, 2 Teacher Recommendations, Application****.5 CREDIT***CAREER PATHWAY CODE: HUS*

COURSE DESCRIPTION: The purpose of this course is to learn and practice the skills required to become an effective leader. Skills include setting personal goals, leading and motivating groups, conducting meetings, communication, developing a leadership style, problem-solving, critical thinking and reflection. In addition to classwork, students will be required to perform 10 hours of community service outside of school as well as lead an in-school service project. Students of all grade levels are required to submit an application and two teacher recommendations to be considered for the course.

CLASS: MASS MEDIA I**GRADE LEVEL: 9-12****PREREQUISITES: Application****1 CREDIT***CAREER PATHWAY CODE: AC, BMT*

COURSE DESCRIPTION: Mass Media I is for first year publication students who need direct instruction in areas such as camera functionality, photography composition, graphic design, journalism, marketing, etc.

This course is designed to develop students' skills in both hard copy and digital media production. The class is in charge of several campus publications, but working on the annual yearbook will be the primary focus for Mass Media I students. Students will learn basic principles of journalism and develop skills that include writing copy, captions, and headlines, digital photography, and graphic design.

CLASS: MASS MEDIA II**GRADE LEVEL: 10-12****PREREQUISITES: Mass Media I (C or Above)****1 CREDIT***CAREER PATHWAY CODE: AC, BMT*

COURSE DESCRIPTION: Mass Media II is designed for students who have successfully completed Mass Media I. Students in this course will receive less direct instruction and have more opportunities to work independently and in leadership roles. Lessons regarding graphic design, photography composition, camera function, and journalism will be more in depth and rigorous than Level I lessons. The class is in charge of several campus publications, but working on the annual yearbook will be the primary focus for Mass Media II students.

CLASS: MASS MEDIA III**GRADE LEVEL: 11-12****PREREQUISITES: Mass Media I and II (C or Above)****1 CREDIT***CAREER PATHWAY CODE: AC, BMT*

COURSE DESCRIPTION: Mass Media III is for students who have successfully completed Mass Media I and II. Mass Media III students will be placed in leadership roles including titles like editor-in-chief and business manager. Level III students will receive a variety of independent assignments, participate in mentoring opportunities, and have generally more autonomy around the school building. Along with managing the annual yearbook publication, Level III students will also contribute to other campus publications including Varsity News Network updates, social media campaigns, newsletters, and marquee updates.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

CLASS: CADET TEACHING**GRADE LEVEL: 10 - 12****PREREQUISITES: Application****.5 Credit**

COURSE DESCRIPTION: Cadet teaching is a class for grades 10-12 who are working on a college prep diploma and who think they may be interested in becoming a teacher. The first four weeks of first semester is spent in class learning about things such as: writing lesson plans, classroom discipline, teaching methods, classroom procedures, and professionalism. The last four weeks of first semester is spent two-three days in class and two-three days a week with a classroom teacher getting some practical teaching experience.

CLASS: HISTEP**GRADE LEVEL: 11 - 12****PREREQUISITES: Cadet Teaching (B or Above) and Application****.5 Credit**

COURSE DESCRIPTION: In HiStep students will learn to make presentations using positive role modeling techniques on peer pressure, decision making, friendship, etc. Students will make presentations and teach lessons to various grade classes at area junior high and elementary schools. Admission to the class is through written application. Size is limited, and good attendance is required.

CLASS: BROADCASTING**GRADE LEVEL: 10 - 12****PREREQUISITES: None****.5 Credit**

COURSE DESCRIPTION: This course is designed to give students an overview of broadcasting and the career opportunities made available through the pathways of broadcast journalism. This class will help students to learn a brief history of broadcasting, laws and ethics of the field, elements from pre- to post-production, interviewing skills, journalistic writing and proofreading, enhancement of public speaking skills, news casting, radio and podcasting, use of online media, and exploration of careers in broadcast journalism.

CAREER PATH CODES

AC= Arts & Communication
HUS= Human Services

BMT= Business Management/Technology
IET= Industrial/Engineering Technology

HLS= Health Services
NRA= Natural Resources/Agriculture

JEFFERSON COLLEGE AREA TECHNICAL SCHOOL

A variety of technical programs are available through Jefferson College. The mission of the Area Technical School at Jefferson College is to make a positive difference for all students taking their first steps towards their chosen career, continued education and a productive life in society. The programs are divided into high school and college level programs. College vocational credit will be given for each course completed with a grade of "C" or higher. All ATS programs are designed to prepare students for employment right after high school or additional vocational training. Application is required. For further information please visit: www.jeffco.edu/ats.

CLASS: APPLIED COMMUNICATIONS/APPLIED MATHEMATICS

Applied Communications and Applied Math classes are a required component of Building Repair Technology, Health Services I (Applied Communications Only), Metal Fabrication, and Residential Carpentry. Basic computer skills are required for applied courses.

CLASS: AUTOMOTIVE TECHNOLOGY

ENTRY LEVEL: 12, AM Program Only

3 Elective Credits

COURSE DESCRIPTION: Automotive Technicians most often inspect, maintain, and repair cars and light trucks. The instruction in Automotive Technology begins with Automotive Shop Safety. In this course the student will complete an on-line curriculum plus jack and properly support vehicles. In addition, the student will use twin post frame contact lifts and runway ramp style lifts with swing arm jacks. The proper use of bench grinders, power tools and power shop washers will be covered as they pertain to the automotive shop. Required supplies: one pair of safety glasses and two Jefferson College Automotive shirts. Total approximate cost: TBA. **Students may have the opportunity to earn up to 13 hours of college credit.**

CLASS: BIOMEDICAL SCIENCES I/II

ENTRY LEVEL: 10 - 12

3 Elective Credits

COURSE DESCRIPTION: In the Biomedical Sciences program students explore the concepts of human medicine and are introduced to topics such as physiology, genetics, microbiology, and public health. Through activities, like dissecting a heart, students examine the processes, structures and interactions of the human body-often playing the role of biomedical professionals. They also explore the prevention, diagnosis, and treatment of disease, working collaboratively to investigate and design innovative solutions to the health challenges of the 21st century such as fighting cancer with nanotechnology. Required supplies: Lab notebook, lab coat, HOSA dues, three-ring binder, paper, pen and flash drive. Total approximate cost: \$70.

CLASS: BUILDING REPAIR TECHNOLOGY

ENTRY LEVEL: 10-12

Required Component of Course: APPLIED COMMUNICATION AND APPLIED MATH

3 Elective Credits

COURSE DESCRIPTION: This course prepares students to be skilled building repair technicians. Students are provided experience in assembly, installation, maintenance, and repair of systems within residential and commercial buildings. Classroom and laboratory instruction include opportunities for students to work with metals, wood, stone, brick, glass, concrete, and composition substances. The students will also learn installation and repair of various mechanical and electrical systems, the proper use of a variety of hand and power tools, as well as how to read blueprints, and follow technical specifications. Students will also receive the opportunity to learn various welding techniques. Required supplies: Safety glasses, daily school supplies (paper, notebook, etc.). Total approximate cost: TBA.

CLASS: CULINARY ARTS**ENTRY LEVEL: 10-12****3 Elective Credits**

COURSE DESCRIPTION: This course is designed for the student who wishes to enter the culinary arts trade with a career in food preparation in a hotel, club, or restaurant environment. Emphasis is placed on the fundamentals of restaurant banquet service and restaurant management or ownership. Required supplies: blue or black ink pen, loose leaf paper, 3-ring binder, culinary arts uniform (2 jackets, 1 chef pants, 2 aprons, 1 hat), Hepatitis A vaccination and SkillsUSA membership dues. Total approximate cost: \$100. **Students have the opportunity to earn up to 16 hours of articulated credit.**

CLASS: DIGITAL MEDIA TECHNOLOGY**ENTRY LEVEL: 10 - 12****3 Elective Credits**

COURSE DESCRIPTION: This program combines classroom experience with real-world projects; this interdisciplinary program is designed for students seeking employment in information technology careers, including, but not limited to: web design, digital media and motion graphics creation, photo manipulation, programming for the web, and installation and repair of microcomputer systems. Some of the software programs used to gain this experience include: Adobe Photoshop, Dreamweaver, Adobe Illustrator, Adobe Flash, Adobe Premiere, and Adobe After Effects. Required supplies: Jump Drive/Thumb Drive. **Students may have the opportunity to earn up to 15 hours of college credit.**

CLASS: EARLY CHILDHOOD EDUCATION/ELEMENTARY**ENTRY LEVEL: 11 or 12****3 Elective Credits**

COURSE DESCRIPTION: Provides students with the background and professional competencies necessary for employment in the field of early childhood care and education. Instruction includes topics in child health, nutrition and safety, infant/toddler care, and principles of child growth and development. Articulation agreements with the University of Missouri-St.Louis and Missouri Baptist University allow for high school seniors to transfer credits to these institutions toward a Bachelor's degree in Early Childhood or Elementary Education.

CLASS: FIRE SCIENCE TECHNOLOGY**ENTRY LEVEL: 12, AM Program Only****3 Elective Credits**

COURSE DESCRIPTION: The Fire Science Technology program introduces students to a career as a full-time or volunteer firefighter. Students will learn to control and extinguish fires, prevent fires, provide emergency medical services, respond to hazardous materials and disasters, and search and rescue. Students are required to attend mandatory Saturday sessions. During the EMT training, students will also be required to gain 24 hours of experience at a hospital and 24 hours of experience on an ambulance ride. Required supplies: Uniform, boots, notebook, index card, black socks and fire gloves. Total approximate cost is \$166 - \$236. **Students may have the opportunity to earn up to 16 hours of college credit.**

CLASS: HEALTH SERVICES I/II**ENTRY LEVEL: 11 and 12****Required Component of Course: APPLIED COMMUNICATION AND APPLIED MATH****3 Elective Credits**

COURSE DESCRIPTION: This course provides specific educational experiences essential for development of skills, knowledge, and attitudes necessary for employment in existing and emerging health occupations. Each student will develop understanding and skills in basic nursing practice as they apply to the duties of a nurse's aide. Instruction will include procedures and directions in the following areas: basic hygiene and infection control techniques, bed making, personal care procedures, food service, charting, basic preventative and restorative care, basic observation, safety techniques, basic emergency first aid, uncomplicated nursing procedures, i.e., recording vital signs, weighing and measuring, etc.; communication and mathematical skills, interpersonal relationships, teamwork, and ethical and legal responsibilities. Students must be at least 16 years of age to participate in this program and have reliable transportation to and from the clinical sites. Required supplies: uniform (scrubs), stethoscope, watch with second hand, weight belt, white socks, white tennis shoes. Total approximate cost: \$217. **Students may have the opportunity to earn up to 7 hours of college credit in Health Services II.**

CLASS: HEATING, REFRIGERATION, & AIR CONDITIONING TECHNOLOGY**ENTRY LEVEL: 11 or 12****3 Elective Credits**

COURSE DESCRIPTION: HRA 101 Basic Electricity for HVAC involves lecture and lab experiences with topics in electron theory, series and parallel circuits, test equipment, electric motors, and an introduction to house heating and AC controls, and the wiring thereof. HRA 105 Principles of Refrigeration includes the study of the basic refrigeration circuit and its components, use of hand tools, test equipment, brazing, proper charging and evacuation methods. HRA 125 Refrigeration Mechanical Systems covers various refrigeration systems and their components and the assembly thereof. Emphasis is on the EPA test, system evacuation and recovery. The EPA test is studied and taken in this class. HRA 145 Piping Design, Sizing, and Installation for Heating, Refrigeration, and Air Conditioning teaches students to identify pipe fittings, size gas and Freon lines, and properly assemble pipe fittings for heating, refrigeration, and air conditioning systems. HRA 135 Introduction to Mechanical Code prepares students to properly determine ductwork sizing and installation, venting, gas and refrigerant piping, and electrical requirements, as well as to apply fresh air requirements to meet mechanical code. Required supplies: safety glasses, notebook, program shirt. Total approximate cost: \$30. **Students may have the opportunity to earn up to 30 hours of college credit upon completion of both years.**

CLASS: METAL FABRICATION**ENTRY LEVEL: 10-12****Required Component of Course: APPLIED COMMUNICATION AND APPLIED MATH****3 Elective Credits**

COURSE DESCRIPTION: This course provides students with specialized learning experiences in metal work. Students are prepared to assume the duties of an all-around metal worker capable of fabricating and assembling a variety of metal products in many industries. The program consists of three components: sheet metal, machining, and welding. Required supplies: 20' tape measure, 3-ring binder, flint type striker, soapstone, welding gloves (gauntlet type), spiral notebook, safety glasses (2), high speed cutter bit, pen/pencil, welding jacket, welding helmet and steel toed work boots. Total approximate cost: \$140.

CLASS: PRECISION MACHINING TECHNOLOGY**ENTRY LEVEL: 12****3 Elective Credits**

COURSE DESCRIPTION: This program teaches students about the integrations of industrial machining and CAD/CAM to manufacture extremely intricate material parts. **Students have the opportunity to earn up to 6 college credits upon completion of this program.**

CLASS: RESIDENTIAL CARPENTRY**ENTRY LEVEL: 10 – 12****Required Component of Course: APPLIED COMMUNICATION AND APPLIED MATH****3 Elective Credits**

COURSE DESCRIPTION: Pre-apprentice course designed to provide graduates with entry-level skills in a number of residential construction trades. Instruction will include tool usage and safety, safety on the work site, construction materials, floor framing, wall and ceiling framing, roof framing, roofing materials, window and doors, exterior finish, insulation, and interior finish. Students have the opportunity to earn Industry Recognized Credentials and gain stream lined entry into the Carpenters Union Apprenticeship program. Required supplies: safety glasses, 25 foot tape measure. Total approximate cost: \$25.

CLASS: ADVANCED RESIDENTIAL CARPENTRY**ENTRY LEVEL: 11 or 12****Required Component of Course: MUST COMPLETE RESIDENTIAL CARPENTRY****3 Elective Credits**

COURSE DESCRIPTION: Instruction consists of application of topics covered in Residential Carpentry with performance of skills in construction techniques and processes through construction of an actual structure (house). Successful completion of this program may lead to union apprenticeship and/or semi-skilled and laborer type employment within the carpentry and construction industry. Total approximate cost: \$250.

CLASS: WELDING TECHNOLOGY**ENTRY LEVEL: 11 or 12****3 Elective Credits**

COURSE DESCRIPTION: This program will progress from basic gas and arc welding through advanced arc, gas metal arc (MIG), gas tungsten (TIG) and advanced welding techniques. Required supplies: safety glasses, #1 Victor welding tip 1-W-1, tip cleaner, chipping hammer, wire brush cutting goggles with #5 lens, welding hood with #10 lens, soapstone, combination square, vise grip, flint type striker, scientific calculator, protractor, welding gloves, welding jacket, padlock for locker and boot or shoe protectors. Total approximate cost: \$266.50. **Students may have the opportunity to earn up to 20 hours of college credit.**