De Soto



High School

Course Description Book 2019-2020

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De Soto School District #73

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,

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GRADUATION REQUIREMENTS

High School Diploma

Course Category	Courses	Credits
English	English 9, 10, 11, 12	4
Math	Must pass Algebra 1	3
Science	Physics 1st, Gen. Chemistry and Biology	3
Social Studies	World History, American History and American Government	3
Foreign Language	None Required	0
Practical Arts	Unspecified	0.5
Personal Finance	Personal Finance	0.5
Fine Arts	Unspecified	1
Physical Education	PE, Strength Training	1
Health	Health	0.5
ACT Prep	Not Required	0
Electives	Unspecified	7.5
Total		**24**

College Prep Diploma

Course Category	Courses	Credits
English	English 9, 10, 11 and Advanced 12th English or College Comp I/II	4
Math	Must complete Algebra II or higher	3
Science	Physics 1st, Gen. Chemistry and Biology	3
Social Studies	World History, American History and American Government	3
Foreign Language	Spanish I/II or French I/II	2
Practical Arts	Unspecified	0.5
Personal Finance	Personal Finance	0.5
Fine Arts	Unspecified	1
Physical Education	PE, Strength Training	1
Health	Health	0.5
ACT Prep	ACT Prep (waived with a composite ACT score of 24 or higher)	0.5
Electives	Unspecified (less are needed due to ACT Prep/Foreign Language Requirements)	5
Total		**24**

Additional requirements for College Prep Diploma:
1. GPA 3.2 or higher
2. 22 ACT score
3. Valedictorian/Salutatorian must complete College Prep Diploma

Please note: The College Prep Diploma requirements listed above are accurate for students graduating in or before May of 2022. The College Prep Diploma requirements are currently under review for the class of 2023 and those that follow. The requirements will be shared upon approval from the Board of Education.

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)
- Advanced World History (1.0)*

Science Department

- Physics First (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)
- Strength Training (0.5 or 1.0)*
- Health (0.5)

ELECTIVES CONTINUED

Practical Arts

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

- Foods I (0.5)
- International Foods (0.5)*
- Fashion and Apparel (0.5)
- Family Living (0.5)

- Intro to Industrial Technology (0.5)

- Mass Media (1.0)*

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)*

- 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)

- Theatre Arts (1.0)

Miscellaneous

- Leadership (0.5)*

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)*

ELECTIVES CONTINUED

Practical Arts

- Computer Applications (0.5)
- Multimedia (0.5)*
- Graphic Arts (0.5)*
- Personal Finance (0.5)
- Business Law (0.5)
- Accounting I (1.0)
- Business Management: Sports and Entertainment (0.5)
- Chromeland Network Administration (1.0)*
- Website Development (0.5)*
- Website Development II (0.5)*
- Career Opportunities (0.5)
- Foods I (0.5)
- International Foods (0.5)*
- Nutrition and Wellness (0.5)*
- Fashion and Apparel (0.5)
- Family Living (0.5)
- Family and Careers (0.5)*
- Intro to Industrial Technology (0.5)
- Mass Media (1.0)*

Fine Arts

- Art I (1.0)
- Art II (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)*
- Guitar (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)*

Miscellaneous

- Study Hall (0.5 or 1.0) (NO CREDIT)
- A+ Tutoring (0.5 or 1.0)
- Leadership (0.5)*

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)

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)*

Practical Arts

- Computer Applications (0.5)
- Multimedia (0.5)*
- Graphic Arts (0.5)*
- Personal Finance (0.5)
- Business Law (0.5)
- Accounting I (1.0)
- Accounting II (1.0)*
- Business Management: Sports/Entertainment (0.5)
- Chromeland Network Administration (1.0)*
- Website Development (0.5)*
- Website Development II (0.5)*
- Programming – C++ (0.5)*
- Programming – JAVA (0.5)*
- Career Opportunities (0.5)

ELECTIVES CONTINUED

Practical Arts Continued

- Foods I (0.5)
- International Foods (0.5)*
- Nutrition and Wellness (0.5)*
- Fashion and Apparel (0.5)
- Housing and Interior Design (0.5)*
- Family Living (0.5)
- Family and Careers (0.5)*
- Child Development (0.5)
- Child Development II (0.5)*
- Intro to Industrial Technology (0.5)
- Industrial Technology (1.0)*
- Mass Media (1.0)*

Fine Arts

- Art I (1.0)
- Art II (1.0)*
- Art III (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)*
- Guitar (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)*
- Actor's Studio II/Directing (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)*
- HISTEP (0.5)
- Leadership (0.5)*
- ACT Prep (0.5)
- Modern American Military History (0.5)
- Sociology (1.0)
- Psychology (0.5)
- Psychology II (0.5)*
- Athletic Injuries and Orthopedic Assessment (0.5)*
- Botany (0.5)*
- Zoology (0.5)*
- Physics (1.0)*
- Honors Anatomy and Physiology (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)*

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)*
- Leadership (0.5)*
- College American History I & II (1.0)*

Science Department

- Athletic Injuries and Orthopedic Assessment (0.5)*
- Botany (0.5)*
- Zoology (0.5)*
- Physics (1.0)*
- College Chemistry (1.0)*
- Honors Anatomy and Physiology (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)*

Practical Arts

- Computer Applications (0.5)
- Multimedia (0.5)*
- Career Opportunities (0.5)
- Graphic Arts (0.5)*
- Personal Finance (0.5)
- Business Law (0.5)

ELECTIVES CONTINUED

- Accounting I (1.0)
- Accounting II (1.0)*
- Business Management: Sports/Entertainment (0.5)
- Chromeland Network Administration (1.0)*
- Website Development (0.5)*
- Website Development II (0.5)*
- Programming – C++ (0.5)*
- Programming – JAVA (0.5)*
- CCE/Supervision (2.0-3.0)*
- Foods I (0.5)
- International Foods (0.5)*
- Nutrition and Wellness (0.5)*
- Fashion and Apparel (0.5)
- Housing and Interior Design (0.5)*
- Family Living (0.5)
- Family and Careers (0.5)*
- Child Development (0.5)
- Child Development II (0.5)*
- Intro to Industrial Technology (0.5)
- Industrial Technology (1.0)*
- Mass Media (1.0)*

Fine Arts

- Art I (1.0)
- Art II (1.0)*
- Art III (1.0)*
- Art IV (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)*
- Guitar (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)*
- Actor's Studio II/Directing (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)
- HISTEP (0.5)
- ACT Prep (0.5)

ATHLETIC ELIGIBILITY

De Soto High School 2019-2020
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 for 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. To be eligible, students must be a high school graduate and meet two of the following three requirements:

- Achieve a minimum of 18 on the ACT or 860 on the SAT, or
- Achieve a minimum overall high school GPA of 2.0 on a 4.0 scale, or
- Graduate in the top half of your high school class

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 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:

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.**

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.**

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 five times a year on the DHS campus**. In addition, all students will take the ACT for free in April of their junior year.

SAT (Scholastic Aptitude Test)
SAT is a test used to predict student performance in college. Required by some colleges (predominantly on the East and West coast) as part of the application process, this three-hour test has two main sections-verbal and math. Questions in the verbal section are divided into reading passages, analogies and sentence completion. Questions in the mathematical section cover standard multiple-choice, quantitative comparisons and grid-in-answers. Visit www.sat.collegeboard.org to register. **This test is not administered 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 three years prior to graduation.
- 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. The A+ program will continue to use non-weighted GPA.

Department	Course
English	College Composition I
	College Composition II
	Honors 11th English
Social Studies	College American History I
	College American History II
	Honors American History
Science	College Chemistry
	Honors Anatomy & Physiology
Math	College Algebra
	College Calculus
	College Pre-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	Credit
English	College Composition I / ENG 101	3 hours
	College Composition II / ENG 102	3 hours
Social Studies	College American History I / HST103	3 hours
	College American History II / HST104	3 hours
Science	College Chemistry / CHM111	5 hours
Math	College Algebra / MTH134	3 hours
	College Pre-calculus / MTH 141	5 hours
	College Calculus / MTH180	5 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: Formerly called MoVIP, 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 is not a school and does NOT offer a complete high school diploma program. Instead, they offer courses that will be applied to the student's transcript at the local school toward graduation. Successful MOCAP students will graduate with a high school diploma from the local school. To learn more about MOCAP, please visit http://desoto73shs.ss7.sharpschool.com/UserFiles/Servers/Server_508507/Image/MOCAP%20Enrollment%20Procedures.pdf

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 e-mail in January 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 e-mail in January of their sophomore year.

Eligibility

- 3.7 GPA or higher through first three semesters of high school
- 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)

*Please note: **Beginning with the 2022 Cohort**, students will be required to enroll in a minimum of 2 out of the 3 following courses: Advanced Chemistry, Advanced 10th English, and Honors American History.

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 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

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-February 1st)
- Write thank you letters to everyone who helped you throughout the way
- Celebrate your hard work!

CAREER PATHS & CLUSTERS

Career Paths

Missouri has identified six Career Paths as a way to help students become aware of and explore careers in a logical and meaningful way. These paths are grouped according to students' interests, abilities, talents, or skills. Selecting a career path provides a student with an area of focus, along with flexibility and a variety of ideas to pursue. Selecting a career path is not a lifelong commitment; it is a place to begin focusing one's energies. As students take different courses and learn more about themselves and careers, they could possibly change career paths. Students who understand the career paths concept will be aware that there are a variety of other related possibilities if the first path no longer fits them. If different career paths become more interesting, the students can reevaluate plans, make appropriate decisions, and revise their high school plans as necessary. The six career paths are as follows:

Arts & Communication
Business, Management/Technology
Human Services
Industrial & Engineering Technology
Health Services
Natural Resources Agriculture

Career Clusters

Within the Career Paths, Missouri uses 16 Career Clusters as a way of further organizing occupations and careers. Career Clusters assist educators and students with more specified career exploration and career planning. It is recommended that students select a Career Cluster of interest during high school in order to tailor coursework and related activities essential for postsecondary educational plans as well as future career aspirations. As a high school student, choosing a Career Cluster is about selecting an area for deeper exploration, not locking in a life-long career plan. The 16 career clusters are as follows:

	The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.
	Careers in designing, planning, managing, building and maintaining the built environment.
	Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.
	Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.
	Planning, managing and providing education and training services, and related learning support services.
	Planning, services for financial and investment planning, banking, insurance, and business financial management.

Government & Public Administration	Executing governmental functions to include Governance; National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels.
Health Science	Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.
Hospitality & Tourism	Hospitality & Tourism encompasses the management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.
Human Services	Preparing individuals for employment in career pathways that relate to families and human needs.
Information Technology	Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.
Law, Public Safety, Corrections & Security	Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.
Manufacturing	Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.
Marketing, Sales & Service	Planning, managing, and performing marketing activities to reach organizational objectives.
Science, Technology, Engineering & Mathematics	Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.
Transportation, Distribution & Logistics	Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

For more information, please visit the following websites:

www.missouriconnections.org www.missouricareereducation.org

www.missourieconomy.org www.missouricareersource.org

PROGRAM OF STUDY TEMPLATES BY CLUSTER

"What do you want to do after high school?" That is a question that is asked of our students a multitude of times over the course of their public school education. It's a question that is not easily answered, due to the enormous number of possible post-secondary alternatives that are currently available to our students. Technological advances and global competition have transformed the nature of both education and work. Tomorrow's jobs will require more knowledge and training, highly developed 21st Century Skills, technological skills, and more flexible workers than ever before. Our students need to be prepared for, and informed of, the reality of several job and career changes over the course of their lifetimes. They need to understand that they will have to continually update their knowledge and skills, which may require additional training and/or education.

The De Soto School District offers a wide array of courses and experiences to its students. As students review course offerings and activities, we hope to guide them in choosing coursework and experiences that are relevant to their future goals.

In planning for post-secondary goals, students should start with examining where their own interests and talents lie. This can be accomplished in many different ways within the school district; researching middle and high school classes of interest, taking interest and skill inventories, participating in career fairs offered, and taking advantage of the many extra-curricular and enrichment activities available. The school district uses the Missouri Connections online program (www.missouriconnections.org) for interest assessments and to explore the variety of options students have beyond high school.

Using the results of career assessments students create their personal plan of study for their high school years and beyond. School counselors, teachers and other district personnel, are available to guide students and parents in this important planning process. The planning process is critical to not only meeting graduation requirements, but also to taking the coursework that will ultimately lead to a successful post-secondary transition.

The following program of study templates, serve as a guide, along with other career planning materials, to help students develop their personal plans of study. Courses listed within these programs of study templates are recommended coursework only and should be individualized to meet each learner's educational and career goal.

De Soto High School
Agriculture, Food & Natural Resources
Career Cluster Program of Study Template
www.desoto.k12.mo.us

Minimum Graduation Requirements	SUGGESTED COURSE OF HIGH SCHOOL STUDY It is suggested that students consider dual credit, articulation, or advanced placement opportunities for postsecondary credit.

	Grade	English	Math	Science	Social Studies	Required Courses, Elective Options	Area Technical School of Jefferson College	Additional Learning Opportunities
Secondary	9	9th English or Advanced 9th English	Intro to Algebra or Algebra I/ Accelerated Algebra I or Geometry/Accelerated Geometry	Physics 1st	World History or Advanced World History	PE /Health Foreign Language I Foods I International Foods Career Opportunities		**School-Based:** ☐ *Career Research* ☐ *Cooperative Education* ☐ *Job Shadowing* ☐ *Other:* _____ **Community Based:** ☐ *Mentorship* ☐ *Volunteer* ☐ *Part-time Employment* ☐ *Other:* _____ **Assessments/Certifications**: ☐ *Technical Skills Attainment (TSA)* ☐ *Other:* _____ **Placement Assessments:** ☐ *Compass Test* ☐ *ACT* ☐ *PSAT* ☐ *SAT* ☐ *ASVAB* ☐ *Other:* _____ **Student Organizations:** ☐ *DECA* ☐ *FBLA* ☐ *FCCLA* ☐ *Skills USA* ☐ *Other:* _____
	10	10th English or Advanced 10th English	Algebra I or Geometry/Accelerated Geometry or Algebra II or Algebra II/Trig	General Chemistry or Advanced Chemistry	American History or Honors American History♦	Personal Finance/PE Foreign Language II Nutrition and Wellness Family and Careers Intro to Industrial Technology	Culinary Arts I Metal Fabrication I	
	11	11th English or Honors 11th English♦	Geometry/Accelerated Geometry or Algebra II or Trigonometry or Algebra II/Trig or College Algebra*♦ or College Pre-Calculus	Biology	American Government or Advanced American Government	Fine Art of your choice ACT Prep/A+ Tutoring Computer Apps/Multi Media Fashion and Apparel Accounting I Industrial Technology	Culinary Arts II Metal Fabrication II Welding I	
	12	12th English or Advanced 12th English or College Comp I/II*♦	Algebra II or Trigonometry or College Algebra*♦ or College Pre-Calculus or College Calculus*♦	Botany/Zoology College Chemistry*♦	Sociology College American History I/II*♦	Accounting II CCE	Culinary Arts III Metal Fabrication III Welding II	

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**

Postsecondary Offerings – For A Complete Listing, go to www.missouriconnections.org

Postsecondary

Community College

- Crowder College www.crowder.edu
- East Central College www.eastcentral.edu
- Jefferson College www.jeffco.edu
- Metropolitan Community College www.mcckc.edu
- Mineral Area College www.mineralarea.edu
- North Central Missouri College www.ncmissouri.edu
- Ozarks Technical Community College www.otc.edu
- St Louis Community College www.stlcc.edu
- State Fair Community College www.sfccmo.edu
- State Technical College of Missouri www.statetechmo.edu
- Three Rivers Community College www.trcc.edu

Technical School/Training Institution

- Columbia Area Career Center www.career-center.org
- Davis Hart Career Center www.mexicoschools.net
- Eldon Career Center www.eldoncareercenter.org
- Hannibal Career and Technical Center www.hannibal.tec.mo.us
- Kirksville Area Tech Center www.kirksville.k12.mo.us
- Lake Career & Technical Center www.camdentonschools.org
- Moberly Area Tech Center www.moberly.k12.mo.us
- Ranken Tech College www.ranken.edu
- Waynesville Technical Academy www.waynesville.k12.mo.us

In State

- A.T. Skill University of Health Sciences www.atsu.edu
- Avila University - www.avila.edu
- Central Methodist University www.centralmethodist.edu
- College of the Ozarks - www.coto.edu
- Columbia College - www.ccis.edu
- Culver-Stockton College www.culver.edu
- Drury University - www.drury.edu
- Evangel University - www.evangel.edu
- Fontbonne Univ - www.fontbonne.edu
- Hannibal-Lagrange College - www.hlg.edu
- Lincoln University - www.lincolnu.edu
- Lindenwood University www.lindenwood.edu
- Maryville University of St. Louis www.maryville.edu
- Missouri Baptist Univ - www.mobap.edu
- MO Southern State University www.mssu.edu
- Missouri State University www.missouristate.edu
- Missouri State University – West Plains www.wp.missouristate.edu
- MO Univ of Science & Technology www.mst.edu
- Missouri Valley College www.moval.edu
- Missouri Western State University www.missouriwestern.edu
- Northwest Missouri State University www.nwmissouri.edu
- Park University - www.park.edu
- Rockhurst University - www.rockhurst.edu
- Saint Louis University www.imagine.stu.edu
- Southeast MO State University www.semo.edu
- Southwest Baptist University www.sbuniv.edu
- Stephens College - www.stephens.edu
- Truman State Univ - www.truman.edu
- Univ of Central MO - www.ucmo.edu
- University of MO – Columbia www.missouri.edu
- University of MO – Kansas City www.umkc.edu
- Univ of MO – St Louis - www.umsl.edu
- Washington University - www.wustl.edu
- Webster University www.websteruniv.edu
- Westminster College www.westminster-mo.edu
- William Jewell College - www.jewell.edu
- William Woods University www.williamwoods.edu

Other

- Apprenticeship
- Military
- On-the-Job Training

Petropolis Academy of Grooming & Training - www.petropolisacademy.com

Midwest Institute www.midwestinstitute.com

Sample Careers By Educational Level – For Occupational Specialties, go to www.careerclusters.org or www.missouriconnections.org

On-The-Job Training or Less	Technical Training or Associate Degree	Bachelor's Degree	Master's Degree or More
Animal Caretakers	Fish and Game Wardens	Agricultural Engineers	Agricultural Sciences Teachers, Postsecondary
Animal Trainers	Forestry Technicians	Agricultural Scientists	Animal Scientists
Bakers	Precision Agriculture Technicians	Animal Scientists	Farm and Home Management Advisors
Commercial Fishers		Conservation Scientists	Veterinarians
Farm and Ranch Workers		Farm and Home Management Advisors	Zoologists and Wildlife Biologists
Farm Equipment Mechanics		Food Scientists	
Farmers		Foresters	
Food Processing Workers		Park Naturalists	
Log Graders and Scalers		Zoologists	
Loggers			
Meat Cutters			
Mining Machine Operators			
Nursery Workers			
Rock Splitters			
Trash Collectors			
Veterinary Assistants			
Water Treatment Plant Operators			

De Soto High School
Architecture & Construction
Career Cluster Program of Study Template
www.desoto.k12.mo.us

Minimum Graduation Requirements	SUGGESTED COURSE OF HIGH SCHOOL STUDY It is suggested that students consider dual credit, articulation, or advanced placement opportunities for postsecondary credit.

	Grade	English	Math	Science	Social Studies	Required Courses, Elective Options	Area Technical School of Jefferson College	Additional Learning Opportunities
Secondary	9	9th English or Advanced 9th English	Intro to Algebra or Algebra I/ Accelerated Algebra I or Geometry/Accelerated Geometry	Physics 1st	World History or Advanced World History	PE /Health Foreign Language I Art I Intro to Industrial Technology Career Opportunities		**School-Based:** ☐ *Career Research* ☐ *Cooperative Education* ☐ *Job Shadowing* ☐ *Other:* _____ **Community Based:** ☐ *Mentorship* ☐ *Volunteer* ☐ *Part-time Employment* ☐ *Other:* _____ **Assessments/Certifications**: ☐ *Technical Skills Attainment (TSA)* ☐ *Other:* _____ **Placement Assessments:** ☐ *Compass Test* ☐ *ACT* ☐ *PSAT* ☐ *SAT* ☐ *ASVAB* ☐ *Other:* _____ **Student Organizations:** ☐ *DECA* ☐ *FBLA* ☐ *FCCLA* ☐ *Skills USA* ☐ *Art Club* ☐ *Other:* _____
	10	10th English or Advanced 10th English	Algebra I or Geometry/Accelerated Geometry or Algebra II or Algebra II/Trig	General Chemistry or Advanced Chemistry	American History or Honors American History♦	Personal Finance/PE Foreign Language II Art II	Residential Carpentry I Building Repair Technology I Metal Fabrication I	
	11	11th English or Honors 11th English♦	Geometry/Accelerated Geometry or Algebra II or Trigonometry or Algebra II/Trig or College Algebra*♦ or College Pre-Calculus	Biology	American Government or Advanced American Government	ACT Prep/A+ Tutoring Computer Apps/Multi Media Graphic Arts Art III Industrial Technology	Advanced Residential Carpentry Building Repair Technology II Metal Fabrication II	
	12	12th English or Advanced 12th English or College Comp I/II*♦	Algebra II or Trigonometry or College Algebra*♦ or College Pre-Calculus*♦ or College Calculus*♦	Physics College Chemistry*♦	Sociology College American History I/II*♦	Art IV Housing & Interior Design CCE	Advanced Residential Carpentry Building Repair Technology III Advanced Metal Fabrication HVAC	

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**

Postsecondary Offerings – For A Complete Listing, go to www.missouriconnections.org

Postsecondary

Community College

Crowder College
www.crowder.edu
East Central College
www.eastcentral.edu
Jefferson College
www.jeffco.edu
Metropolitan Community College
www.mcckc.edu
Mineral Area College
www.mineralarea.edu
Moberly Area Comm College
www.macc.edu
North Central Missouri College
www.ncmissouri.edu
Ozarks Technical Comm College
www.otc.edu
St Louis Community College
www.stlcc.edu
St. Charles Community College
www.stchas.edu
State Fair Community College
www.sfccmo.edu
State Technical College of Missouri
www.statetechmo.edu
Three Rivers Community College
www.trcc.edu

Technical School/Training Institution

Arcadia Valley Tech Center - www.mineralarea.edu
Cape Girardeau Career/Tech Center
www.cape.k12.mo.us/cc/default.htm
Boonslick Technical Education Center –
www.boonville.k12.mo.us/schools/btec
Clinton Technical School - www.clinton.k12.mo.us
Columbia Area Career Ctr - www.career-center.org
Davis Hart Career Ctr- www.mexicoschools.net
Eldon Career Ctr - www.eldoncareercenter.org
Franklin Technology- MSSU www.ftcjoplin.com
Gibson Tech Ctr - www.wolves.k12.mo.us/gtc
Grand River Technical School - www.grts.org
Hannibal Career and Technical Center
www.hannibal.tec.mo.us
Herndon Career Center
www.herndoncareercenter.com
Hillyard Technical Ctr - www.hillyardtech.com
Lake Career & Technical Center
www.camdentonschools.org
Lebanon Technology and Career Ctr
www.lebanon.k12.mo.us
Lex La-Ray Tech Ctr www.lexington.k12.mo.us
Kirksville Area Tech Ctr www.kirksville.k12.mo.us
Moberly Area Tech Ctr - www.moberly.k12.mo.us
Nichols Career Center - www.jcps.k12.mo.us
Northland Career Center
www.northlandcareercenter.com
Northwest Tech School - www.maryville.k12.mo.us
Perryville Area Career/Tech Center
www.perryville.k12.mo.us
Pike-Lincoln Tech Ctr - www.pltc.k12.mo.us
Poplar Bluff Technical Career Center
www.r1schools.org
Ranken Tech College - www.ranken.edu
Rolla Tech Institute - www.rolla.k12.mo.us
Sikeston Career & Tech Ctr - www.sikeston.k12.mo.us
South Central Career Ctr - www.wphs.k12.mo.us
Unitec Career Center - www.mineralarea.edu
Waynesville Technical Academy
www.waynesville.k12.mo.us

In State

Avila University - www.avila.edu
Baptist Bible College - www.baptist.edu
Bryan College - www.bryancollege.ecom
Central Methodist University
www.centralmethodist.edu
College of the Ozarks - www.coto.edu
Columbia College - www.ccis.edu
Culver-Stockton College - www.culver.edu
Drury University - www.drury.edu
Evangel University - www.evangel.edu
Everest College www.everest-college.edu
Fontbonne Univ - www.fontbonne.edu
Hannibal-Lagrange College -www.hlg.edu
Harris-Stowe State Univ - www.hssu.edu
Lincoln University - www.lincolnu.edu
Lindenwood Univ - www.lindenwood.edu
Maryville Univ of St. Louis
www.maryville.edu
Messenger College
www.messengercollege.edu
Missouri Baptist Univ - www.mobap.edu
Missouri College
www.missouricollege.com
Missouri Southern State University
www.mssu.edu
Missouri State University
www.missouristate.edu
Missouri State University – West Plains
www.wp.missouristate.edu
MO University of Science & Technology
www.mst.edu
Missouri Western State University
www.missouriwestern.edu
Park University - www.park.edu
Rockhurst University
www.rockhurst.edu
Saint Louis University
www.imagine.stu.edu
Sanford-Brown College
www.sanford-browncollege.com
Southeast MO State University
www.semo.edu
Southwest Baptist Univ -www.sbuniv.edu
Stephens College - www.stephens.edu
Truman State Univ - www.truman.edu
Univ of Central MO - www.ucmo.edu
Univ of MO – Columbia -www.missouri.edu
Univ of MO – Kansas City www.umkc.edu
Univ of MO – St Louis - www.umsl.edu
University of Phoenix - www.phoenix.edu
Vatterott College
www.vatterott-college.edu
Washington University - www.wustl.edu
Webster University - www.websteruniv.edu
Westminster College
www.westminster-mo.edu
William Jewell College - www.jewell.edu
William Woods University
www.williamwoods.edu

Other

- Apprenticeship
- Military
- On-the-Job Training

Foley-Belsaw Institute
www.foley-belsaw.com
Colorado Technical University
www.coloradotech.com
DeVry University
www.drury.edu
Grantham University
www.grantham.edu
ITT Technical Institute
www.itt-tech.edu
Job Point (Columbia & Sedalia)
www.jobpointmo.com
MERS/Missouri Goodwill Industries
www.mersgoodwill.org
Missouri Welding Institute
www.nwi.ws
National American University
www.national.edu

Sample Careers By Educational Level – For Occupational Specialties, go to www.careerclusters.org or www.missouriconnections.org

On-The-Job Training or Less	Technical Training or Associate Degree	Bachelor's Degree	Master's Degree or More
Bricklayers, Stonemasons and Cement Masons	Commercial Divers	Architects	Architects, Except Landscape and Naval
Cabinetmakers and Carpenters	Drafters	Construction Managers	Architecture Teachers, Postsecondary
Drywall Finishers & installers and Plasterers	Energy Auditors	Cost Estimators	Engineering Managers
Electricians	Interior Designers	Landscape Architects	Engineering Teachers, Postsecondary
Fence Builders		Surveyors	Historians
Heating and Cooling System Mechanics			Operations Research Analysts
Highway Maintenance Workers & Paving Equip Operators			Political Scientists
Line Installers and Repairers			Sociologists
Plumbers and Pipefitters			Sociology Teachers, Postsecondary
Roofers			
Sheet Metal Workers and Structural Metal Workers			
Surveying and Mapping Technicians			
Tile Setters			

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**



De Soto High School
Arts, A/V Technology & Communications
Career Cluster Program of Study Template
www.desoto.k12.mo.us

Minimum Graduation Requirements	SUGGESTED COURSE OF HIGH SCHOOL STUDY It is suggested that students consider dual credit, articulation, or advanced placement opportunities for postsecondary credit.

	Grade	English	Math	Science	Social Studies	Required Courses, Elective Options	Area Technical School of Jefferson College	Additional Learning Opportunities
Secondary	9	9th English or Advanced 9th English	Intro to Algebra or Algebra I/ Accelerated Algebra I or Geometry/Accelerated Geometry	Physics 1st	World History or Advanced World History	PE /Health Foreign Language I Art I Theatre Arts Band Choir Mass Media Guitar		**School-Based:** ☐ *Career Research* ☐ *Cooperative Education* ☐ *Job Shadowing* ☐ *Other:* _____ **Community Based:** ☐ *Mentorship* ☐ *Volunteer* ☐ *Part-time Employment* ☐ *Other:* _____ **Assessments/Certifications**: ☐ *Technical Skills Attainment (TSA)* ☐ *Other:* _____ **Placement Assessments:** ☐ *Compass Test* ☐ *ACT* ☐ *PSAT* ☐ *SAT* ☐ *ASVAB* ☐ *Other:* _____ **Student Organizations:** ☐ *DECA* ☐ *FBLA* ☐ *Skills USA* ☐ *Art Club* ☐ *ITS* ☐ *Other:* _____
	10	10th English or Advanced 10th English	Algebra I or Geometry/Accelerated Geometry or Algebra II or Algebra II/Trig	General Chemistry or Advanced Chemistry	American History or Honors American History♦	Personal Finance/PE Foreign Language II Art II Actor's Studio I Band Choir Mass Media Graphic Arts Computer Apps/Multi Media Chromeland Network Administration		
	11	11th English or Honors 11th English♦	Geometry/Accelerated Geometry or Algebra II or Trigonometry or Algebra II/Trig or College Algebra*♦ or College Pre-Calculus	Biology	American Government or Advanced American Government	ACT Prep/A+ Tutoring Website Development SFV/Music App Art III Actor's Studio II Band Choir Mass Media Graphic Arts Programming Chromeland Network Administration	Digital Media Technology I	
	12	12th English or Advanced 12th English or College Comp I/II*♦	Algebra II or Trigonometry or College Algebra*♦ or College Pre-Calculus*♦ or College Calculus*♦		College American History I/II*♦	Website Development II Art IV Actor's Studio II Band Choir Mass Media Chromeland Network Administration CCE	Digital Media Technology II	

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**

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Postsecondary

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Jefferson College
www.jeffco.edu
Metropolitan Comm College
www.mcckc.edu
Mineral Area College
www.mineralarea.edu
Moberly Area Comm College
www.macc.edu
Ozarks Tech Comm College
www.otc.edu
St. Charles Comm College
www.stchas.edu
St Louis Community College
www.stlcc.edu
State Fair Community College
www.sfccmo.edu
State Technical College of Missouri
www.statetechmo.edu
Three Rivers Comm College
www.trcc.edu

Technical School/Training Institution

Cape Girardeau Career/Tech Center
www.cape.k12.mo.us/cc/default.htm
Clinton Technical School
www.clinton.k12.mo.us/ts.php
Davis Hart Mexico Technical School
www.mexicoschools.org
Eldon Career Center - www.eldoncareercenter.org
Four Rivers Technical Center
www.washington.k12.mo.us
Franklin Technology - MSSU - www.ftcjoplin.com
Gibson Tech Ctr - www.wolves.k12.mo.us/gtc
Hannibal Career and Technical Center
www.hannibal.tec.mo.us
Herndon Career Center
www.herndoncareercenter.com
Hillyard Tech Center - www.hillyardtech.com
Kennett Career & Technology Center –
www.kennett.k12.mo.us
Kirksville Area Technical Center -
www.kirksville.k12.mo.us
Lake Career and Technical Center
www.camdentonschools.org
Lex La-Ray Tech Ctr - www.lexington.k12.mo.us
Moberly Area Tech Ctr - www.moberly.k12.mo.us
Nichols Career Center - www.jcps.k12.mo.us
Perryville Area Career/Technical Center
www.mineralarea.edu
Poplar Bluff Tech Career Ctr – www.r1schools.org
Ranken Technical College - www.ranken.edu
Rolla Technical Institute - www.rolla.k12.mo.us
Sikeston Career & Technology Center
www.sikeston.k12.mo.us
Waynesville Technical Academy
www.waynesville.k12.mo.us

In State

Avila University - www.avila.edu
Bryan College - www.bryancollege.com
Central Methodist University
www.centralmethodist.edu
College of the Ozarks - www.coto.edu
Columbia College - www.ccis.edu
Culver-Stockton College – www.culver.edu
DeVry University – www.devry.edu
Drury University - www.drury.edu
Evangel University - www.evangel.edu
Everest College
www.everest-college.com
Fontbonne Univ - www.fontbonne.edu
Hannibal-Lagrange College - www.hlg.edu
Harris-Stowe State Univ -www.hssu.edu
Hickey College
www.hickeycollege.edu
Lincoln University - www.lincolnu.edu
Lindenwood Univ - www.lindenwood.edu
Maryville Univ of St. Louis
www.maryville.edu
Messenger College
www.messengercollege.edu
Missouri Baptist Univ - www.mobap.edu
Missouri College
www.missouricollege.com
MO Southern State Univ - www.mssu.edu
Missouri State University
www.missouristate.edu
Missouri State University – West Plains
www.wp.missouristate.edu
Missouri Valley College –www.moval.edu
Missouri Western State University
www.missouriwestern.edu
Northwest Missouri State University
www.nwmissouri.edu
Ozark Christian College – www.occ.edu
Park University - www.park.edu
Patricia Stevens College
www.patriciastevenscollege.edu
Rockhurst University - www.rockhurst.edu
Saint Louis Univ - www.imagine.stu.edu
Sanford-Brown College
www.sanford-browncollege.com
Southeast MO State Univ -www.semo.edu
Southwest Baptist Univ -www.sbuniv.edu
Stephens College - www.stephens.edu
Truman State Univ - www.truman.edu
Univ of Central MO - www.ucmo.edu
Univ of MO – Columbia -www.missouri.edu
Univ of MO – Kansas City - www.umkc.edu
Univ of MO – Rolla – www.umr.edu
Univ of MO – St Louis - www.umsl.edu
Vatterott Coll - www.vatterott-college.edu
Washington University - www.wustl.edu
Webster University - www.websteruniv.edu
William Jewell College - www.jewell.edu
William Woods University
www.williamwoods.edu

Other

- Apprenticeship
- Military
- On-the-Job Training

American College of Technology
www.acot.edu
Baptist Bible College -
www.baptist.edu
Barbizon School of Clayton
www.barbizonmodeling.com
Broadcast Center
www.broadcastcenterinfo.com
Calvary Bible College and
Theological Seminary -
www.calvary.edu
Central Bible College -
www.cbcag.edu
Colorado Technical University
www.coloradotech.com
Court Report Academy
www.thecourtreportingacademy.com
ITT Technical Institute
www.itt-tech.edu
Kansas City Art Inst - www.kcai.edu
Midwestern Baptists Theological
Seminary - www.mbts.edu
Missouri Tech – www.motech.edu
National American University
www.national.edu

Sample Careers By Educational Level - For Occupational Specialties, go to www.careerclusters.org or www.missouriconnections.org

On-The-Job Training or Less	Technical Training or Associate Degree	Bachelor's Degree	Master's Degree or More
Actors	Audio and Video Equipment Technicians	Agents and Business Managers$47,240	Art, Drama, and Music Teachers, Postsecondary
Bookbinders and Bindery Workers	Broadcast Technicians and Sound Engineering Techs	Animators and Multi-media Artists$46,170	Communications Teachers, Postsecondary
Camera/Photographic Equipment Repairers	Camera Operators, Film and Video Editors	Art Directors and Talent Directors$73,800	English Language and Literature Teachers, Postsecondary
Communications Equipment Mechanics	Choreographers	Broadcast News Analysts and News Reporters	Historians
Costume and Wardrobe Specialists	Communications Equipment Mechanics	Copy Writers, Technical Writers and Editors	Librarians
Dancers	Computer, Automated Teller, & Office Machine Repairers	Directors- Stage, Motion Pictures, Television, and Radio	
Fine Artists	Desktop Publishers and Page Layout Workers	Film and Video Editors$38,260	
Floral Designers	Directors- Stage, Motion Pictures, Television, and Radio	Graphic Designers$40,080	
Movie Projectionists	Electronic Home Entertainment Equipment Installers/Repairers	Industrial Designers$52,070	
Musical Instrument Repairers and Tuners	Fashion Designers and Interior Designers	Interpreters and Translators	
Musicians and Singes	Fine Artists, Including Painters, Sculptors, and Illustrators	Multi-Media Artists and Animators	
Painting, Coating, and Decorating Workers	Multi-Media Artists and Animators	Museum Technicians and Conservators$31,180	
Photographers	Music Directors	Music Composers, Directors, and Arrangers	
Potters	Poets, Lyricists and Creative Writers	Poets, Lyricists and Creative Writers	
Printing Press Operators	Producers	Proofreaders and Copy Markers	
Proofreaders	Radio Mechanics and Operators	Reporters and Correspondents	
Ushers and Ticket Takers	Telecommunications Equipment Installers and Repairers	Set and Exhibit Designers$44,070	
		Vocational Education Teachers, Postsecondary $46,69	

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**

De Soto High School
Business Management & Administration
Career Cluster Program of Study Template
www.desoto.k12.mo.us

Minimum Graduation Requirements	SUGGESTED COURSE OF HIGH SCHOOL STUDY It is suggested that students consider dual credit, articulation, or advanced placement opportunities for postsecondary credit.

	Grade	English	Math	Science	Social Studies	Required Courses, Elective Options	Area Technical School of Jefferson College	Additional Learning Opportunities
Secondary	9	9th English or Advanced 9th English	Intro to Algebra or Algebra I/ Accelerated Algebra I or Geometry/Accelerated Geometry	Physics 1st	World History or Advanced World History	PE/Health Foreign Language I Computer Apps/Multi Media Leadership Career Opportunities		**School-Based:** ☐ *Career Research* ☐ *Cooperative Education* ☐ *Job Shadowing* ☐ *Other:* _____ **Community Based:** ☐ *Mentorship* ☐ *Volunteer* ☐ *Part-time Employment* ☐ *Other:* _____ **Assessments/Certifications**: ☐ *Technical Skills Attainment (TSA)* ☐ *Other:* _____ **Placement Assessments:** ☐ *Compass Test* ☐ *ACT* ☐ *PSAT* ☐ *SAT* ☐ *ASVAB* ☐ *Other:* _____ **Student Organizations:** ☐ *DECA* ☐ *FBLA* ☐ *Skills USA* ☐ *STUCO* ☐ *Other:* _____
	10	10th English or Advanced 10th English	Algebra I or Geometry/Accelerated Geometry or Algebra II or Algebra II/Trig	General Chemistry or Advanced Chemistry	American History or Honors American History♦	Personal Finance/PE Foreign Language II Graphic Arts Business Law/ Chromeland Network Administration Leadership		
	11	11th English or Honors 11th English♦	Geometry/Accelerated Geometry or Algebra II or Trigonometry or Algebra II/Trig or College Algebra*♦ or College Pre-Calculus	Biology	American Government or Advanced American Government	ACT Prep/A+ Tutoring Website Development I/II Accounting I Programming Office Assistant Chromeland Network Administration Leadership		
	12	12th English or Advanced 12th English or College Comp I/II*♦	Algebra II or Trigonometry or College Algebra*♦ or College Pre-Calculus*♦ or College Calculus*♦	College Chemistry*♦	College American History I/II*♦	Fine Art Website Development I/II Accounting II Programming Office Assistant CCE Chromeland Network Administration Leadership		

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**

Postsecondary Offerings – For A Complete Listing, go to www.missouriconnections.org

Postsecondary

Community College

Crowder College
www.crowder.edu
East Central College
www.eastcentral.edu
Jefferson College
www.jeffco.edu
Metropolitan Community College
www.mcckc.edu
Mineral Area College
www.mineralarea.edu
Moberly Area Community College
www.macc.edu
North Central Missouri College
www.ncmissouri.edu
Ozarks Technical Comm College
www.otc.edu
St. Charles Community College
www.stchas.edu
St Louis Community College
www.stlcc.edu
State Fair Community College
www.sfccmo.edu
Three Rivers Community College
www.trcc.edu

Technical School/Training Institution

Cape Girardeau Career/Tech Center
www.cape.k12.mo.us/cc/default.htm
Clinton Tech School
www.clinton.k12.mo.us
Eldon Career Center
www.eldoncareercenter.org
Franklin Technology - MSSU
www.ftcjoplin.com
Grand River Technical School
www.grts.org
Hillyard Technical Center
www.hillyardtech.com
Kirksville Area Technical Center
www.kirksville.k12.mo.us
Lex La-Ray Technical Center
www.lexington.k12.mo.us
Moberly Area Technical Center
www.moberly.k12.mo.us
Northwest Technical School
www.maryville.k12.mo.us
Pike-Lincoln Tech Center
www.pltc.k12.mo.us
Ranken Tech College -
www.ranken.edu
Saline County Career Center
www.marshallschools.com/sccc
Sikeston Career and Technology Center
www.sikeston.k12.mo.us

In State

Avila University - www.avila.edu
Baptist Bible College - www.baptist.edu
Bryan College - www.bryancollege.com
Central Methodist University
www.centralmethodist.edu
College of the Ozarks - www.coto.edu
Columbia College - www.ccis.edu
Culver-Stockton College - www.culver.edu
DeVry University – www.devry.edu
Drury University - www.drury.edu
Evangel University - www.evangel.edu
Everest College - www.everest-college.com
Fontbonne Univ - www.fontbonne.edu
Hannibal-Lagrange College -www.hlg.edu
Harris-Stowe State Univ - www.hssu.edu
Hickey College - www.hickeycollege.edu
Lincoln University - www.lincolnu.edu
Lindenwood Univ - www.lindenwood.edu
Maryville Univ of St. Louis
www.maryville.edu
Messenger College
www.messengercollege.edu
Missouri Baptist Univ - www.mobap.edu
Missouri College
www.missouricollege.com
MO Southern State Univ - www.mssu.edu
Missouri State University
www.missouristate.edu
Missouri State University – West Plains
www.wp.missouristate.edu
Missouri Western State University
www.missouriwestern.edu
Northwest Missouri State University
www.nwmissouri.edu
Park University - www.park.edu
Patricia Stevens College
www.patriciastevenscollege.edu
Rockhurst University - www.rockhurst.edu
Saint Louis University
www.imagine.stu.edu
Sanford-Brown College
www.sanford-browncollege.com
Southeast MO State Univ -www.semo.edu
Southwest Baptist Univ -www.sbuniv.edu
Stephens College - www.stephens.edu
Truman State Univ - www.truman.edu
Univ of Central MO - www.ucmo.edu
Univ of MO – Columbia -www.missouri.edu
Univ of MO – Kansas City www.umkc.edu
Univ of MO – Rolla – www.umr.edu
Univ of MO – St Louis - www.umsl.edu
Univ of Phoenix – www.phoenix.edu
Vatterott College
www.vatterott-college.edu
Washington University - www.wustl.edu
Webster University - www.websteruniv.edu
Westminster College
www.westminster-mo.edu
William Jewell College - www.jewell.edu
William Woods University
www.williamwoods.edu

Other

- Apprenticeship
- Military
- On-the-Job Training

Colorado Technical University
www.coloradotech.com
Daruby School
www.darubyschool.com
Grantham University
www.grantham.edu
ITT Technical Institute
www.itt-tech.edu
Job Point (Columbia & Sedalia)
www.jobpointmo.com
Metro Business College
www.metrobusinesscollege.edu
MVC Computer & Business School
www.mvcschool.com
National American University
www.national.edu
TechSkills
www.techskills.com
Texas County Technical Institute
www.texascountytech.edu

Sample Careers By Educational Level – For Occupational Specialties, go to www.careerclusters.org or www.missouriconnections.org

On-the-Job Training	Technical Training or Associate Degree	Bachelor's Degree	Master's Degree or More
Billing Clerks	Court Reporters	Administrative Services Managers	Business Teacher, Postsecondary
Bookkeeping and Accounting Clerks	First-Line Supervisors/Managers	Advertising Managers	Chief Executives
Computer Operators	General and Operations Managers	Business Executives	Controller, Treasurers
Copy Machine Operators	Production and Operating Workers	Computer and Information Systems Managers	Economists
Couriers and Messengers		Employee Training Specialists	Medical and Health Services Managers
Data Entry		Employment Interviewers and Recruiters	Operations Research Analysts
File Clerks		Human Resources Managers	Statisticians
General Office Clerks		Job Benefits and Analysis Specialists	
Human Resources Assistants		Management Analysts	
Interviewing Clerks		Market Research Analysts	
Mail Clerks		Meeting and Convention Planners	
Order Clerks and Stock Clerks		Property and Real Estate Managers	
Payroll and Timekeeping clerks		Public Relations Managers, Specialists	
Receptionists		Purchasing Manager and Sales Managers	
Secretaries		Regulatory Affairs Specialists	
Shipping and Receiving Clerks		Social and Community Services Managers	
Typists		Storage and Distribution Managers	

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**

De Soto High School
Education & Training
Career Cluster Program of Study Template
www.desoto.k12.mo.us

Minimum Graduation Requirements	SUGGESTED COURSE OF HIGH SCHOOL STUDY It is suggested that students consider dual credit, articulation, or advanced placement opportunities for postsecondary credit.

	Grade	English	Math	Science	Social Studies	Required Courses, Elective Options	Area Technical School of Jefferson College	Additional Learning Opportunities
Secondary	9	9th English or Advanced 9th English	Intro to Algebra or Algebra I/ Accelerated Algebra I or Geometry/Accelerated Geometry	Physics 1st	World History or Advanced World History	PE /Health Foreign Language I Fine Art Leadership Career Opportunities		**School-Based:** ☐ *Career Research* ☐ *Cooperative Education* ☐ *Job Shadowing* ☐ *Other:* _____ **Community Based:** ☐ *Mentorship* ☐ *Volunteer* ☐ *Part-time Employment* ☐ *Other:* _____ **Assessments/Certifications**: ☐ *Technical Skills Attainment (TSA)* ☐ *Other:* _____ **Placement Assessments:** ☐ *Compass Test* ☐ *ACT* ☐ *PSAT* ☐ *SAT* ☐ *ASVAB* ☐ *Other:* _____ **Student Organizations:** ☐ *DECA* ☐ *FBLA* ☐ *FCCLA* ☐ *Skills USA* ☐ *TREND* ☐ *STUCO* ☐ *Other:* _____
	10	10th English or Advanced 10th English	Algebra I or Geometry/Accelerated Geometry or Algebra II or Algebra II/Trig	General Chemistry or Advanced Chemistry	American History or Honors American History♦	Personal Finance/PE Foreign Language II Family and Careers Computer Apps/Multi Media Chromeland Network Administration Intro to Industrial Technology Leadership		
	11	11th English or Honors 11th English♦	Geometry/Accelerated Geometry or Algebra II or Trigonometry or Algebra II/Trig or College Algebra*♦ or College Pre-Calculus	Biology	American Government or Advanced American Government	ACT Prep/A+ Tutoring Graphic Arts Child Development I/Child Development II HISTEP/Family Living Office Assistant Chromeland Network Administration Industrial Technology Leadership	Early Childhood & Elementary Education I	
	12	12th English or Advanced 12th English or College Comp I/II*♦	Algebra II or Trigonometry or College Algebra*♦ or College Pre-Calculus*♦ or College Calculus*♦	College Chemistry*♦	Sociology College American History I/II*♦	Cadet Teaching Teacher Assistant Office Assistant Chromeland Network Administration CCE Leadership	Early Childhood & Elementary Education II	

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**

Postsecondary Offerings - For A Complete Listing, go to www.missouriconnections.org.

Postsecondary

Community College	Technical School/Training Institution	In State		Other
Crowder College www.crowder.edu East Central College www.eastcentral.edu Jefferson College www.jeffco.edu Metropolitan Community College www.mcckc.edu Mineral Area College www.mineralarea.edu Moberly Area Community College www.macc.edu North Central Missouri College www.ncmissouri.edu Ozarks Tech Community College www.otc.edu St. Charles Community College www.stchas.edu St Louis Community College www.stlcc.edu State Fair Community College www.sfccmo.edu Three Rivers Community College www.trcc.edu		Avila University - www.avila.edu Central Methodist University www.centralmethodist.edu College of the Ozarks - www.coto.edu Columbia College - www.ccis.edu Cottey College - www.cottey.edu Culver-Stockton College www.culver.edu Drury University - www.drury.edu Evangel University - www.evangel.edu Fontbonne Univ - www.fontbonne.edu Hannibal-Lagrange College www.hlg.edu Harris-Stowe State Univ -www.hssu.edu Lincoln University - www.lincolnu.edu Lindenwood Univ - www.lindenwood.edu Missouri Baptist Univ - www.mobap.edu Maryville University of St. Louis www.maryville.edu Messenger College www.messengercollege.edu MO Southern State University www.mssu.edu Missouri State University www.missouristate.edu Missouri State University – West Plains www.wp.missouristate.edu Missouri Valley College –www.moval.edu Missouri Western State University www.missouriwestern.edu	Northwest Missouri State University www.nwmissouri.edu Park University - www.park.edu Rockhurst University www.rockhurst.edu Saint Louis Univ - www.imagine.stu.edu St Louis Christian College www.slcconline.edu Southeast MO State University www.semo.edu Southwest Baptist University www.sbuniv.edu Stephens College - www.stephens.edu Truman State Univ - www.truman.edu Univ of Central MO - www.ucmo.edu University of MO – Columbia www.missouri.edu University of MO – Kansas City www.umkc.edu University of MO – St Louis www.umsl.edu Washington University - www.wustl.edu Westminster College www.westminster-mo.edu Webster University www.websteruniv.edu William Jewell College - www.jewell.edu William Woods University www.williamwoods.edu	• Apprenticeship • Military • On-the-Job Training Baptist Bible College & Graduate School www.baptist.edu Calvary Bible College and Theological Seminary - www.calvary.edu Colorado Technical University www.coloradotech.com Conception Seminary College www.conceptionabbey.org Grantham University www.grantham.edu National American University www.national.edu Paris II Educational Center www.parisii.net Wentworth Military Academy www.wma1880.org

Sample Careers By Educational Level - For Occupational Specialties, go to www.careerclusters.org or www.missouriconnections.org

On-The-Job Training or Less	Technical Training or Associate Degree	Bachelor's Degree	Master's Degree or More
Audi-Visual Specialists Coaches and Scouts Library Assistant Teacher Aides	Adult and Vocational Education Instructors Fitness Trainers and Aerobics Instructors Library Technical Assistants Preschool Teachers Teacher Assistants	Adult and Vocational Education Instructors Adult Literacy, Remedial Education, GED Teachers Audio-Visual Specialists Education Administrators Elementary School Teachers Employee Training Specialists High School Teachers Kindergarten Teachers Middle School Teachers Poets, Lyricists, and Creative Writer Public Health Educators Special Education Teachers	Adult and Vocational Education Instructors Audiologists Coaches and Scouts College and University Administrators Curriculum and Instruction Dieticians and Nutritionists Education Administrators Historians Instructional Coordinators Librarians School Psychologists Speech Pathologists Teacher

De Soto High School
Finance
Career Cluster Program of Study Template
www.desoto.k12.mo.us

Minimum Graduation Requirements	SUGGESTED COURSE OF HIGH SCHOOL STUDY It is suggested that students consider dual credit, articulation, or advanced placement opportunities for postsecondary credit.

	Grade	English	Math	Science	Social Studies	Required Courses, Elective Options	Area Technical School of Jefferson College	Additional Learning Opportunities
Secondary	9	9th English or Advanced 9th English	Intro to Algebra or Algebra I/ Accelerated Algebra I or Geometry/Accelerated Geometry	Physics 1st	World History or Advanced World History	PE /Health Foreign Language I Fine Art Leadership Career Opportunities		**School-Based:** ☐ *Career Research* ☐ *Cooperative Education* ☐ *Job Shadowing* ☐ *Other:* _____ **Community Based:** ☐ *Mentorship* ☐ *Volunteer* ☐ *Part-time Employment* ☐ *Other:* _____ **Assessments/Certifications**: ☐ *Technical Skills Attainment (TSA)* ☐ *Other:* _____ **Placement Assessments:** ☐ *Compass Test* ☐ *ACT* ☐ *PSAT* ☐ *SAT* ☐ *ASVAB* ☐ *Other:* _____ **Student Organizations:** ☐ *DECA* ☐ *FBLA* ☐ *Skills USA* ☐ *Math Club* ☐ *Other:* _____
	10	10th English or Advanced 10th English	Algebra I or Geometry/Accelerated Geometry or Algebra II or Algebra II/Trig	General Chemistry or Advanced Chemistry	American History or Honors American History♦	Personal Finance/PE Foreign Language II Computer Apps/Multi Media Leadership		
	11	11th English or Honors 11th English♦	Geometry/Accelerated Geometry or Algebra II or Trigonometry or Algebra II/Trig or College Algebra*♦ or Pre-Calculus	Biology	American Government or Advanced American Government	ACT Prep/A+ Tutoring Accounting I Business Law/Business Management Leadership		
	12	12th English or Advanced 12th English or College Comp I/II*♦	Algebra II or Trigonometry or College Algebra*♦ or College Pre-Calculus*♦ or College Calculus*♦	College Chemistry*♦	College American History I/II*♦	Accounting II CCE Leadership		

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**

Postsecondary Offerings – For A Complete Listing, go to www.missouriconnections.org

Postsecondary

Community College	Technical School	In State		Other
Crowder College www.crowder.edu East Central College www.eastcentral.edu Jefferson College www.jeffco.edu Metropolitan Community College www.mcckc.edu Moberly Area Community College www.macc.edu North Central Missouri College www.ncmissouri.edu Ozarks Technical Comm College www.otc.edu St Louis Community College www.stlcc.edu St. Charles Community College www.stchas.edu State Fair Community College www.sfccmo.edu Three Rivers Community College www.trcc.edu		Avila University - www.avila.edu Central Methodist University www.centralmethodist.edu Columbia College - www.ccis.edu College of the Ozarks - www.coto.edu Culver-Stockton College www.culver.edu DeVry University – www.devry.edu Drury University - www.drury.edu Evangel University - www.evangel.edu Everest College www.everest-college.com Fontbonne Univ - www.fontbonne.edu Hannibal-Lagrange College www.hlg.edu Hickey College - www.hickeycollege.edu Lincoln University - www.lincolnu.edu Lindenwood Univ - www.lindenwood.edu Maryville University of St. Louis www.maryville.edu Missouri College www.missouricollege.com MO Southern State University www.mssu.edu Missouri State University www.missouristate.edu Missouri Valley College www.moval.edu Missouri Western State University www.missouriwestern.edu	Northwest Missouri State University www.nwmissouri.edu Park University - www.park.edu Rockhurst University www.rockhurst.edu Saint Louis University www.imagine.stu.edu Southeast MO State University www.semo.edu Stephens College - www.stephens.edu Truman State Univ - www.truman.edu Univ of Central MO - www.ucmo.edu Univ of MO – Columbia www.missouri.edu University of MO – Kansas City www.umkc.edu Univ of MO – Rolla – www.umr.edu Univ of MO – St Louis - www.umsl.edu Washington University - www.wustl.edu Webster University - www.websteruniv.edu Westminster College www.westminster-mo.edu William Jewell College - www.jewell.edu William Woods University www.williamwoods.edu Vatterott College www.vatterott-college.edu	• Apprenticeship • Military • On-the-Job Training Colorado Technical University www.coloradotech.com National American University www.national.edu

Sample Careers By Educational Level – For Occupational Specialties, go to www.careerclusters.org or www.missouriconnections.org

On-the-Job Training	Technical or Associate Degree	Bachelor's Degree	Master's Degree or More
Bank Tellers Bill and Account Collectors Brokerage Clerks Credit Checkers and Authorizers Insurance Adjusters and Examiners Insurance Claims Clerk Insurance Policy and Claims Clerks Loan Clerks Tax Preparers Title Examiners and Searchers	Claims Examiners, Property and Casualty Insurance Insurance Appraisers, Auto Damage Insurance Sales Agents Insurance Underwriters	Accountants and Auditors Appraisers and Assessors Budget Analysts Credit Analysts Financial Analysts Financial Examiners Financial Managers Insurance Agents Insurance Underwriters Loan Officers Securities Salespeople	Actuaries Business Teacher, Postsecondary Economists Treasurers and Controllers

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**

De Soto High School
Government & Public Administration
Career Cluster Program of Study Template
www.desoto.k12.mo.us

Minimum Graduation Requirements	SUGGESTED COURSE OF HIGH SCHOOL STUDY It is suggested that students consider dual credit, articulation, or advanced placement opportunities for postsecondary credit.

	Grade	English	Math	Science	Social Studies	Required Courses, Elective Options	Area Technical School of Jefferson College	Additional Learning Opportunities
Secondary	9	9th English or Advanced 9th English	Intro to Algebra or Algebra I/ Accelerated Algebra I or Geometry/Accelerated Geometry	Physics 1st	World History or Advanced World History	PE /Health Foreign Language I Fine Art Leadership Career Opportunities		**School-Based:** ☐ *Career Research* ☐ *Cooperative Education* ☐ *Job Shadowing* ☐ *Other:* _____ **Community Based:** ☐ *Mentorship* ☐ *Volunteer* ☐ *Part-time Employment* ☐ *Other:* _____ **Assessments/Certifications**: ☐ *Technical Skills Attainment (TSA)* ☐ *Other:* _____ **Placement Assessments:** ☐ *Compass Test* ☐ *ACT* ☐ *PSAT* ☐ *SAT* ☐ *ASVAB* ☐ *Other:* _____ **Student Organizations:** ☐ *DECA* ☐ *FBLA* ☐ *Skills USA* ☐ *TREND* ☐ *STUCO* ☐ *Foreign Language Club* ☐ *Other:* _____
	10	10th English or Advanced 10th English	Algebra I or Geometry/Accelerated Geometry or Algebra II or Algebra II/Trig	General Chemistry or Advanced Chemistry	American History or Honors American History♦	Personal Finance/PE Foreign Language II Computer Apps/Multi Media Leadership		
	11	11th English or Honors 11th English♦	Geometry/Accelerated Geometry or Algebra II or Trigonometry or Algebra II/Trig or College Algebra*♦ or College Pre-Calculus	Biology	American Government or Advanced American Government	ACT Prep/A+ Tutoring Business Law Website Development Accounting I Foreign Language III Leadership		
	12	12th English or Advanced 12th English or College Comp I/II*♦	Algebra II or Trigonometry or College Algebra*♦ or Pre-Calculus*♦ or College Calculus*♦	College Chemistry*♦	Sociology Psychology Psychology II Modern American History College American History I/II*♦	Website Development II Foreign Language IV Accounting II CCE Leadership		

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**

Postsecondary Offerings – For A Complete Listing, go to www.missouriconnections.org

Postsecondary

Community College

- Crowder College — www.crowder.edu
- East Central College — www.eastcentral.edu
- Metropolitan Community College — www.mcckc.edu
- Moberly Area Community College — www.macc.edu
- Three Rivers Community College — www.trcc.edu

Technical School/Training Institution

- Cape Girardeau Career/Tech Center — www.cape.k12.mo.us/cc/default.htm
- Clinton Technical School — www.ed2go.com/cts
- Franklin Technology – MSSU — www.ftcjoplin.com
- Grand River Technical School — www.grts.org
- Hillyard Technical Center — www.hillyardtech.com
- Lex La-Ray Technical Center — www.lexington.k12.mo.us
- Moberly Area Technical Center — www.moberly.k12.mo.us
- Pike-Lincoln Technical Center — http://pltc.k12.mo.us
- Saline County Career Center — www.marshallschools.com/sccc
- Sikeston Career & Technology Center — www.sikestone.k12.mo.us

In State

- Avila University — www.avila.edu
- Central Methodist University — www.centralmethodist.edu
- College of the Ozarks — www.cofo.edu
- Columbia College — www.ccis.edu
- Culver-Stockton College — www.culver.edu
- Drury University — www.drury.edu
- Evangel University — www.evangel.edu
- Everest College — www.everest-college.edu
- Fontbonne University — www.fontbonne.edu
- Harris-Stowe State University — www.hssu.edu
- Lincoln University — www.lincolnu.edu
- Lindenwood University — www.lindenwood.edu
- Maryville University of Saint Louis — www.maryville.edu
- Missouri Baptist University — www.mobap.edu
- Missouri Southern State University — www.mssu.edu
- Missouri State University — www.missouristate.edu
- Missouri Valley College — www.moval.edu
- Missouri Western State University — www.missouriwestern.edu
- Northwest Missouri State University — www.nwmissouri.edu
- Park University — www.park.edu
- Rockhurst University — www.rockhurst.edu
- Saint Louis University — www.imagine.slu.edu
- Southeast MO State University — www.semo.edu
- Southwest Baptist University — www.sbuniv.edu
- Stephens College — www.stephens.edu
- Truman State University — www.truman.edu
- University of Central Missouri — www.ucmo.edu
- University of MO – Columbia — www.missouri.edu
- University of Missouri – Kansas City — www.umkc.edu
- University of MO – St Louis — www.umsl.edu
- Washington University — www.wustl.edu
- Webster University — www.webster.edu

Other

- Apprenticeship
- Military
- On-the-Job Training

ITT Technical Institute — www.itt-tech.edu
Kansas City Art Institute — www.kcai.edu
National American University — www.national.edu

Sample Careers By Educational Level – For Occupational Specialties, go to www.careerclusters.org or www.missouriconnections.org

On-The-Job Training or Less	Technical Training or Associate Degree	Bachelor's Degree	Master's Degree or More
Compliance Officers and Inspectors	Assessors	Administrative Services Managers	Architecture Teachers, Postsecondary
Government Benefits Interviewers	Eligibility Interviewers, Government Programs	Broadcast News Analysts & Public Relations Specialists	Chief Executives
Interpreters and Translators	General, Operations and Transportation Managers	City and Regional Planning Aides	Communications Teachers, Postsecondary
License Clerks	Government Property Inspectors and Investigators	Emergency Management Specialists	Coroners
Mail Carriers	Licensing Examiners and Inspectors	Equal Opportunity Representatives and Officers	Economists
Meter Readers	Mapping Technicians	Financial Examiners	Engineering Managers
Postal Clerks	Municipal and Court Clerks	Legislators	Political Science Teachers, Postsecondary
	Postmaster and Mail Superintendents	Reporters and Correspondents	Political Scientists
	Surveying Technicians	Social and Community Service Managers	
	Tax Examiners, Collectors, and Revenue Agents	Storage and Distribution Managers	
	Tax Preparers	Urban and Regional Planners	

De Soto High School
Health Sciences
Career Cluster Program of Study Template
www.desoto.k12.mo.us

Minimum Graduation Requirements	SUGGESTED COURSE OF HIGH SCHOOL STUDY It is suggested that students consider dual credit, articulation, or advanced placement opportunities for postsecondary credit.

	Grade	English	Math	Science	Social Studies	Required Courses, Elective Options	Area Technical School of Jefferson College	Additional Learning Opportunities
Secondary	9	9th English or Advanced 9th English	Intro to Algebra or Algebra I/ Accelerated Algebra I or Geometry/Accelerated Geometry	Physics 1st	World History or Advanced World History	PE /Health Foreign Language I Foods I International Foods Leadership Career Opportunities		**School-Based:** ☐ *Career Research* ☐ *Cooperative Education* ☐ *Job Shadowing* ☐ *Other:* _____ **Community Based:** ☐ *Mentorship* ☐ *Volunteer* ☐ *Part-time Employment* ☐ *Other:* _____ **Assessments/Certifications**: ☐ *Technical Skills Attainment (TSA)* ☐ *Other:* _____ **Placement Assessments:** ☐ *Compass Test* ☐ *ACT* ☐ *PSAT* ☐ *SAT* ☐ *ASVAB* ☐ *Other:* _____ **Student Organizations:** ☐ *DECA* ☐ *FBLA* ☐ *Skills USA* ☐ *Science Club* ☐ *Math Club* ☐ *TREND* ☐ *Other:* _____
	10	10th English or Advanced 10th English	Algebra I or Geometry/Accelerated Geometry or Algebra II or Algebra II/Trig	General Chemistry or Advanced Chemistry	American History or Honors American History♦	Personal Finance/PE Foreign Language II Computer Apps/Multi Media Nutrition and Wellness Leadership		
	11	11th English or Honors 11th English♦	Geometry/Accelerated Geometry or Algebra II or Trigonometry or Algebra II/Trig or College Algebra*♦ or College Pre-Calculus	Biology	American Government or Advanced American Government	ACT Prep/A+ Tutoring Athletic Injuries/Nutrition & Wellness Child Development/Family Living Family and Careers Leadership	Biomedical I Health Services	
	12	12th English or Advanced 12th English or College Comp I/II*♦	Algebra II or Trigonometry or College Algebra*♦ or College Pre-Calculus*♦ or College Calculus*♦	Honors Anatomy And Physiology♦ College Chemistry*♦	Sociology College American History I/II*♦ Psychology Psychology II	Strength Training Fine Art Leadership	Health Services II Biomedical II Fire Science/EMT	

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**

Postsecondary Offerings - For A Complete Listing, go to www.missouriconnections.org.

Postsecondary

Community College

Crowder College
www.crowder.edu
East Central College
www.eastcentral.edu
Jefferson College
www.jeffco.edu
Metropolitan Comm College
www.mcckc.edu
Mineral Area College
www.mineralarea.edu
Moberly Area Comm College
www.macc.edu
North Central MO College
www.ncmissouri.edu
Ozarks Tech Comm College
www.otc.edu
St. Charles Comm College
www.stchas.edu
St Louis Community College
www.stlcc.edu
State Fair Community College
www.sfccmo.edu
State Technical College of Missouri (Jefferson City)
www.statetechmo.edu
Three Rivers Comm College
www.trcc.edu

Technical School/Training Institution

Boonslick Technical Education Center – www.boonville.k12.mo.us/schools/btec
Cape Girardeau Career/Tech Center www.cape.k12.mo.us/cc/default.htm
Cass Career Ctr - www.harrisonville.k12.mo.us
Columbia Career Ctr - www.career-center.org
Eldon Career Center – www.eldoncareercenter.org
Excelsior Springs Area Career Center www.essd40.com/6/home
Four Rivers Technical Center www.washington.k12.mo.us
Franklin Technology - MSSU www.ftcjoplin.com
Grand River Tech School - www.grts.org
Herndon Career Center www.herndoncareercenter.com
Hillyard Technical Center www.hillyardtech.com
Kennett Career and Technology Center www.kennett.k12.mo.us
Lex La-Ray T Ctr - www.lexington.k12.mo.us
Moberly Area Tech Ctr - www.moberly.k12.mo.us
Northland Career Center www.northlandcareercenter.com
Northwest Technical School www.maryville.k12.mo.us
Poplar Bluff Tech Career Ctr - www.r1schools.org
Rolla Tech Institute – www.rolla.k12.mo.us
Saline County Career Center – www.marshallschools.com/sccc
Sikeston Career and Technology Center www.sikeston.k12.mo.us
South Central Career Center www.wphs.k12.mo.us
Waynesville Technical Academy www.waynesville.k12.mo.us

In State

AT Skill University of Health Sciences www.atsu.edu
Avila University - www.avila.edu
Bryan College - www.bryancollege.com
Central Methodist University www.centralmethodist.edu
College of the Ozarks - www.coto.edu
Columbia College - www.ccis.edu
Culver-Stockton College - www.culver.edu
Drury University - www.drury.edu
Evangel University - www.evangel.edu
Everest College www.everest-college.com
Fontbonne Univ - www.fontbonne.edu
Hannibal-Lagrange College www.hlg.edu
Harris-Stowe State Univ -www.hssu.edu
Lincoln University - www.lincolnu.edu
Lindenwood Univ - www.lindenwood.edu
Maryville Univ of St. Louis www.maryville.edu
Missouri College www.missouricollege.com
Missouri Baptist Univ - www.mobap.edu
MO Southern State Univ - www.mssu.edu
Missouri State University www.missouristate.edu
Missouri State University – West Plains www.wp.missouristate.edu
Missouri Valley College –www.moval.edu
Missouri Western State University www.missouriwestern.edu
Northwest Missouri State University www.nwmissouri.edu
Park University - www.park.edu
Patricia Stevens College www.patriciastevenscollege.edu
Rockhurst University - www.rockhurst.edu
Saint Louis Univ - www.imagine.stu.edu
Sanford-Brown College www.sanford-browncollege.com
Southeast MO State Univ - www.semo.edu
Southwest Baptist Univ -www.sbuniv.edu
Stephens College - www.stephens.edu
Truman State Univ - www.truman.edu
Univ of Central MO - www.ucmo.edu
Univ of MO – Columbia - www.missouri.edu
Univ of MO – Kansas City www.umkc.edu
Univ of MO – St Louis - www.umsl.edu
Univ of Phoenix – www.phoenix.edu
Vatterott College www.vatterott-college.edu
Washington University - www.wustl.edu
Webster University - www.websteruniv.edu
William Jewell College - www.jewell.edu
William Woods University www.williamwoods.edu

Other

- Apprenticeship
- Military
- On-the-Job Training

Allied College - www.hightechinstitute.edu
Barnes-Jewish College of Nursing & Allied Health - www.barnesjewishcollege.edu
Cleveland Chiropractic College www.cleveland.edu
Colorado Tech Univ www.coloradotech.com
Cox Health - www.coxhealth.com
Chamberlain College of Nursing www.chamberlain.edu
Heritage Coll - www.heritage-college.com
Cox College of Nursing & Health Science www.coxcollege.edu
Job Point (Columbia & Sedalia) – www.jobpointmo.com
Logan Coll of Chiropractic - www.logan.edu
Lutheran School of Nursing www.nursingschooollmc.com
Kansas City Univ of Med & Biosciences - www.kcumb.edu
Research Med Ctr School of Nuclear Med www.researchmedicalcenter.com
St John's Reg Health Ctr -www.stjohns.com
Saint Luke's College - www.saint-lukes.org
St Louis College of Health Careers www.slchc.com
St Louis Coll Pharmacy - www.stlcoop.edu
Southeast MO Hospital College of Nursing www.souteastmissourihospital.com
Truman Med Ctr School - Nurse Anesthesia www.trumed.org

Sample Careers By Educational Level - For Occupational Specialties, go to www.careerclusters.org or www.missouriconnections.org

On-The-Job Training or Less	Technical Training or Associate Degree	Bachelor's Degree	Master's Degree or More
Dental Assistants	Cardiovascular Technologists	Administrative Services Managers	Athletic Trainers, Physical and Occupational Therapists
Dental Laboratory Technicians	Dental Hygienists	Athletic Trainers	Biologists, Physicists, Hydrologists, Epidemiologists
Home Health Aides	Emergency Medical Technicians	Biomedical Engineers	Clinical Psychologists and Mental Health Counselors
Medical Appliance Technicians	Health Information Technicians	Computer Programmers	Computer and Information Scientists, Research
Medical Assistants	Licensed Practical Nurses	Computer Software Engineers, Applications	Dietitians and Nutritionists
Medical Equipment Preparers	Medical Laboratory Technicians	Dietitians	Farm and Home Management Advisors
Medical Secretaries	Medical Sonographers	Health Educators	Health Specialties Teachers, Postsecondary
Personal and Home Care Aides	Medical Transcriptionists	Medical and Clinical Laboratory Technologists	Home Economics Teachers, Postsecondary
Pharmacy Aides	Nursing Assistants	Medical Laboratory Technologists	Medical and Health Services Managers
Pharmacy Technicians	Occupational Therapist Assistants	Occupational Health and Safety Specialists	Medical Scientists, Except Epidemiologists
Physical Therapist Aides	Physical Therapist Assistants	Orthotic and Prosthetic Specialists	Natural Sciences Mgrs, Zoologists and Wildlife Biologists
Psychiatric Aides	Radiation Therapists	Petroleum Engineers	Nurse Anesthetists and Physician Assistants
	Radiologic Technologists	Public Relations Specialists	Orthotics and Prosthetics
	Registered Nurses	Recreational Therapists	Pharmacists
	Respiratory Therapists	Rehabilitation Counselors	Speech-Language Pathologists
	Surgical Technologists		Communications Teachers, Postsecondary
	Veterinary Technologists and Technicians		Veterinarians

* Dual Credit ♦ Weighted Course For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php

De Soto High School
Hospitality & Tourism
Career Cluster Program of Study Template
www.desoto.k12.mo.us

Minimum Graduation Requirements	SUGGESTED COURSE OF HIGH SCHOOL STUDY It is suggested that students consider dual credit, articulation, or advanced placement opportunities for postsecondary credit.

	Grade	English	Math	Science	Social Studies	Required Courses, Elective Options	Area Technical School of Jefferson College	Additional Learning Opportunities
Secondary	9	9th English or Advanced 9th English	Intro to Algebra or Algebra I/ Accelerated Algebra I or Geometry/Accelerated Geometry	Physics 1st	World History or Advanced World History	PE /Health Foreign Language I International Foods Foods I Mass Media Leadership Career Opportunities		**School-Based:** ☐ *Career Research* ☐ *Cooperative Education* ☐ *Job Shadowing* ☐ *Other:* _____ **Community Based:** ☐ *Mentorship* ☐ *Volunteer* ☐ *Part-time Employment* ☐ *Other:* _____ **Assessments/Certifications**: ☐ *Technical Skills Attainment (TSA)* ☐ *Other:* _____ **Placement Assessments:** ☐ *Compass Test* ☐ *ACT* ☐ *PSAT* ☐ *SAT* ☐ *ASVAB* ☐ *Other:* _____ **Student Organizations:** ☐ *DECA* ☐ *FBLA* ☐ *FCCLA* ☐ *Skills USA* ☐ *STUCO* ☐ *Foreign Language Club* ☐ *Other:* _____
	10	10th English or Advanced 10th English	Algebra I or Geometry/Accelerated Geometry or Algebra II or Algebra II/Trig	General Chemistry or Advanced Chemistry	American History or Honors American History♦	Personal Finance/PE Foreign Language II Fine Art Computer Apps/Multi Media Mass Media Graphic Arts Leadership Guitar	Culinary Arts I	
	11	11th English or Honors 11th English♦	Geometry/Accelerated Geometry or Algebra II or Trigonometry or Algebra II/Trig or College Algebra*♦ or College Pre-Calculus	Biology	American Government or Advanced American Government	ACT Prep/A+ Tutoring Foreign Language III Accounting I Website Development Business Law Mass Media Family and Careers/Nutrition & Wellness Office Assistant Leadership	Culinary Arts II	
	12	12th English or Advanced 12th English or College Comp I/II*♦	Algebra II or Trigonometry or College Algebra*♦ or College Pre-Calculus*♦ or College Calculus*♦	College Chemistry*♦	Sociology College American History I/II*♦ Psychology Psychology II	Foreign Language IV Accounting II/Business Management Website Development II Mass Media Office Assistant CCE Leadership	Culinary Arts III	

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**

Postsecondary Offerings - For A Complete Listing, go to www.missouriconnections.org

Postsecondary

Community College

- Crowder College www.crowder.edu
- East Central College www.eastcentral.edu
- Jefferson College www.jeffco.edu
- Metropolitan Community College www.mcckc.edu
- Mineral Area College www.mineralarea.edu
- Ozarks Tech Community College www.otc.edu
- St Louis Community College www.stlcc.edu
- Three Rivers Community College www.trcc.edu

Technical School/Training Institution

- Cape Girardeau Career/Tech Center www.cape.k12.mo.us/cc/default.htm
- Columbia Area Career Center – www.career-center.org
- Gibson Technical Center www.wolves.k12.mo.us/gtc
- Lake Career and Technical Center www.camdentonschools.org
- Lebanon Technology Career Center www.lebanon.k12.mo.us
- Macon Area Vocational Technical School www.macon.k12.mo.us/vocational
- Northland Career Center www.northlandcareercenter.com
- Northwest Tech School www.maryville.k12.mo.us
- Nevada Regional Technical Center www.nevada.k12.mo.us.us
- Poplar Bluff Technical Career Center www.r1schools.org
- Sikeston Career & Technology Center www.sikeston.k12.mo.us
- South Central Career Center www.wphs.k12.mo.us
- Waynesville Technical Academy www.waynesville.k12.mo.us

In State

- Avila University - www.avila.edu
- Central Methodist University www.centralmethodist.edu
- College of the Ozarks - www.coto.edu
- Columbia College - www.ccis.edu
- Culver-Stockton College www.culver.edu
- Drury University - www.drury.edu
- Evangel University - www.evangel.edu
- Fontbonne Univ - www.fontbonne.edu
- Lincoln University - www.lincolnu.edu
- Lindenwood Univ - www.lindenwood.edu
- Missouri Baptist Univ - www.mobap.edu
- MO Southern State University www.mssu.edu
- Missouri State University www.missouristate.edu
- Missouri Valley College www.moval.edu
- Missouri Western State University www.missouriwestern.edu
- Northwest Missouri State University www.nwmissouri.edu
- Park University - www.park.edu
- Rockhurst University - www.rockhurst.edu
- Saint Louis Univ - www.imagine.stu.edu
- Southeast MO State Univ -www.semo.edu
- Southwest Baptist Univ -www.sbuniv.edu
- Stephens College - www.stephens.edu
- Truman State Univ - www.truman.edu
- Univ of Central MO - www.ucmo.edu
- University of MO – Columbia www.missouri.edu
- Univ of MO – Kansas City www.umkc.edu
- Univ of MO – St Louis - www.umsl.edu
- Washington University - www.wustl.edu
- Webster University www.websteruniv.edu
- Westminster College www.westminster-mo.edu
- William Jewell College - www.jewell.edu
- William Woods University www.williamwoods.edu

Other

- Apprenticeship
- Military
- On-the-Job Training

Kansas City Art Institute www.kcai.edu

Lecole Culinaire www.lecoleculinarie.com

Midwestern Baptist Theological Seminary – www.mbts.edu

Sample Careers By Educational Level - For Occupational Specialties, go to www.careerclusters.org or www.missouriconnections.org

On-The-Job Training or Less	Technical Training or Associate Degree	Bachelor's Degree	Master's Degree or More
Amusement and Recreation Workers	Animal Trainers	Interpreters and Translators	Farm and Home Management Advisors
Baggage Porters and Bellhops	Casino Gaming Workers	Meeting and Convention Planners	
Bartenders	First-Line Supervisors/Managers of Housekeeping and	Recreation Workers	
Casino Gaming Workers	Janitorial Workers	Set and Exhibit Designers	
Chefs and Dinner Cooks	Flight Attendants	Social and Community Service Managers	
Concierges	Food Service Managers		
Counter Attendants	Lodging Managers		
Fast Food Cooks	Reservation and Transportation Ticket Agents and Travel		
Food Preparation Workers	Clerks		
Hotel Desk Clerks	Residential Advisors		
Janitors and Cleaners	Self Enrichment Education Teachers		
Kitchen Helpers	Travel Agents		
Maids and Housekeepers			
Professional Athletes			
Recreation Attendants			
Recreation Guides			
Recreation Workers			
Reservation and Ticket Agents			
Restaurant Hosts			
Tour Guides			
Umpires and Referees			
Waiters and Waitresses			

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**

De Soto High School
Human Services
Career Cluster Program of Study Template
www.desoto.k12.mo.us

Minimum Graduation Requirements	SUGGESTED COURSE OF HIGH SCHOOL STUDY It is suggested that students consider dual credit, articulation, or advanced placement opportunities for postsecondary credit.

	Grade	English	Math	Science	Social Studies	Required Courses, Elective Options	Area Technical School of Jefferson College	Additional Learning Opportunities
Secondary	9	9th English or Advanced 9th English	Intro to Algebra or Algebra I/ Accelerated Algebra I or Geometry/Accelerated Geometry	Physics 1st	World History or Advanced World History	PE /Health Foreign Language I Fine Art Leadership Career Opportunities		**School-Based:** ☐ *Career Research* ☐ *Cooperative Education* ☐ *Job Shadowing* ☐ *Other:* _____ **Community Based:** ☐ *Mentorship* ☐ *Volunteer* ☐ *Part-time Employment* ☐ *Other:* _____ **Assessments/Certifications**: ☐ *Technical Skills Attainment (TSA)* ☐ *Other:* _____ **Placement Assessments:** ☐ *Compass Test* ☐ *ACT* ☐ *PSAT* ☐ *SAT* ☐ *ASVAB* ☐ *Other:* _____ **Student Organizations:** ☐ *DECA* ☐ *FBLA* ☐ *FCCLA* ☐ *Skills USA* ☐ *STUCO* ☐ *TREND* ☐ *Other:* _____
	10	10th English or Advanced 10th English	Algebra I or Geometry/Accelerated Geometry or Algebra II or Algebra II/Trig	General Chemistry or Advanced Chemistry	American History or Honors American History♦	Personal Finance/PE Foreign Language II Computer Apps/Multi Media Business Law/Child Development Leadership		
	11	11th English or Honors 11th English♦	Geometry/Accelerated Geometry or Algebra II or Trigonometry or Algebra II/Trig or College Algebra*♦ or College Pre-Calculus	Biology	American Government or Advanced American Government	ACT Prep/A+ Tutoring Foreign Language III Graphic Arts Family Living/Family and Careers Accounting I Programming	Early Childhood and Elementary Education I	
	12	12th English or Advanced 12th English or College Comp I/II*♦	Algebra II or Trigonometry or College Algebra*♦ or College Pre-Calculus*♦ or College Calculus*♦	College Chemistry*♦	Sociology College American History I/II*♦ Psychology Psychology II	Foreign Language IV Website Development Website Development II Accounting II CCE Leadership	Early Childhood and Elementary Education II	

* Dual Credit ♦ Weighted Course For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php

Postsecondary Offerings - For A Complete Listing, go to www.missouriconnections.org

Postsecondary

Community College

Crowder College
www.crowder.edu
East Central College
www.eastcentral.edu
Metropolitan Community College
www.mcckc.edu
St Louis Community College
www.stlcc.edu
Three Rivers Community College
www.trcc.edu

Technical School/Training Institution

Colorado Technical University
www.coloradotech.com
Davis Hart Career Center
www.mexicoschools.net
Herndon Career Center
www.herndoncareercenter.com
Heritage Tech Institute
www.hightechinstitute.edu
Massage Therapy Training Institute
www.massagetherapytraininginstitute.com
Midwest Institute
www.midwestinstitute.com
Neosho Beauty College
www.neoshobeautycollege.com
Paris II Educational Center -
www.parisii.net
Patsy & Robs Academy of Beauty
www.praob.edu
Pinnacle Career Institute
www.pcitraining.edu
Poplar Bluff Technical Career Center
www.r1schools.org
Professional Massage Training Center
www.pmtc.edu
Regency Beauty Institute
www.regencybeauty.com
St Charles School of Massage Therapy
www.dayspaacademy.net

In State

Allied College - www.alliedcollege.edu
Avila University - www.avila.edu
Central Bible College – www.cbcag.edu
Central Methodist University
www.centralmethodist.edu
College of the Ozarks - www.coto.edu
Columbia College - www.ccis.edu
Conception Seminary College
www.conceptionabbey.org
Culver-Stockton College
www.culver.edu
Drury University - www.drury.edu
Evangel University - www.evangel.edu
Fontbonne Univ - www.fontbonne.edu
Hannibal-Lagrange College
www.hlg.edu
Lincoln University - www.lincolnu.edu
Lindenwood Univ - www.lindenwood.edu
Maryville University of St. Louis
www.maryville.edu
Messenger College
www.messengercollege.edu
Metro Business College
www.metrobusinesscollege.edu
Midwest University - www.midwest.edu
Missouri Baptist Univ - www.mobap.edu
Missouri College
www.missouricollege.com
Missouri College of Cosmetology
www.missouricosmo.com
MO Southern State University
www.mssu.edu
Missouri State University
www.missouristate.edu
Missouri Valley College
www.moval.edu
Missouri Western State University
www.missouriwestern.edu
Northwest Missouri State University
www.nwmissouri.edu
Ozark Christian College - www.occ.edu
Park University - www.park.edu
Rockhurst University
www.rockhurst.edu
Saint Louis Christian College
www.slcconlin.edu
St Louis College of Health Careers
www.slchc.com
Saint Louis Univ - www.imagine.stu.edu
Sanford-Brown College
www.sanford-browncollege.com
Southeast MO State University
www.semo.edu
Southwest Baptist University
www.sbuniv.edu
Truman State Univ - www.truman.edu
Univ of Central MO - www.ucmo.edu
University of MO – Columbia
www.missouri.edu
University of MO – Kansas City
www.umkc.edu
Univ of MO – St Louis - www.umsl.edu
Vatterott College
www.vatterott-college.edu
Washington University - www.wustl.edu
Webster University -
www.websteruniv.edu
Westminster College
www.westminster-mo.edu
William Woods University
www.williamwoods.edu

Other

- Apprenticeship
- Military
- On-the-Job Training

Aquinas Institute of Theology
www.ai.edu
Assemblies of God Theological Seminary – www.agts.edu
Calvary Bible College & Theological Seminary – www.calvary.edu
Chillicothe Beauty Academy
www.chillicothecosmetology.com
Concordia Seminary - www.csl.edu
Cosmetology Concepts Institute
www.cosmetology-concepts.com
Covenant Theological Seminary
www.covenantseminary.edu
Eden Theological Seminary
www.eden.edu
Elaine Steven Beauty College
www.elainestevenbeautycollege.com
Grabber School of Hair Design
www.grabberschool.com
House of Heavlin Beauty College
www.kc-hair.com
Independence College of Cosmetology
www.hair-skin-nails.com
Kenrick Glennon Seminary
www.kenrick.edu
Merrell University of Beauty Arts & Science - www.merrelluniversity.edu
Midwestern Baptist Theological Seminary - www.mbts.edu
Nazarene Theological Seminary
www.nts.edu
St Paul School of Theology
www.spst.edu

Sample Careers By Educational Level – For Occupational Specialties, go to www.careerclusters.org or www.missouriconnections.org

On-The-Job Training or Less	Technical Training or Associate Degree	Bachelor's Degree	Master's Degree or More
Child Care Workers	Barbers	Addiction Counselors	Clergy
Customer Service Representatives	Embalmers and Funeral Director	Director, Religious Activities and Education	Industrial-Organizational Psychologists
Funeral Attendants	Government Programs	Early Childhood Educator	Marriage and Family therapists
Laundry and Dry Cleaning Workers	Hairstylists and Cosmetologists	Financial Counselors	Mental Health Counselors
Lifeguards and Other Recreational Protective Service Workers	Manicurists	Health Educators	Psychologists
Residential Counselors	Preschool Teacher	Recreation Workers	Rehabilitation Counselors
Social and Human Service Assistants	Professional Makeup Artists	Rehabilitation Counselors	School Counselors
	Residential Advisors	Social and Community Service Manager	Social Workers
	Skin Care Specialists	Social Workers	Substance Abuse and Behavioral Disorder Counselors
	Social and Human Service Assistants		Teachers, Postsecondary

* Dual Credit ♦ Weighted Course For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php

De Soto High School
Information Technology
Career Cluster Program of Study Template
www.desoto.k12.mo.us

Minimum Graduation Requirements	SUGGESTED COURSE OF HIGH SCHOOL STUDY It is suggested that students consider dual credit, articulation, or advanced placement opportunities for postsecondary credit.

	Grade	English	Math	Science	Social Studies	Required Courses, Elective Options	Area Technical School of Jefferson College	Additional Learning Opportunities
Secondary	9	9th English or Advanced 9th English	Intro to Algebra or Algebra I/ Accelerated Algebra I or Geometry/Accelerated Geometry	Physics 1st	World History or Advanced World History	PE /Health Foreign Language I Fine Art Mass Media Leadership Career Opportunities		**School-Based:** ☐ *Career Research* ☐ *Cooperative Education* ☐ *Job Shadowing* ☐ *Other:* _____ **Community Based:** ☐ *Mentorship* ☐ *Volunteer* ☐ *Part-time Employment* ☐ *Other:* _____ **Assessments/Certifications**: ☐ *Technical Skills Attainment (TSA)* ☐ *Other:* _____ **Placement Assessments:** ☐ *Compass Test* ☐ *ACT* ☐ *PSAT* ☐ *SAT* ☐ *ASVAB* ☐ *Other:* _____ **Student Organizations:** ☐ *DECA* ☐ *FBLA* ☐ *Skills USA* ☐ *Math Club* ☐ *Science Club* ☐ *Other:* _____
	10	10th English or Advanced 10th English	Algebra I or Geometry/Accelerated Geometry or Algebra II or Algebra II/Trig	General Chemistry or Advanced Chemistry	American History or Honors American History ♦	Personal Finance/PE Foreign Language II Computer Apps/Multi Media Mass Media Graphic Arts Chromeland Network Administration		
	11	11th English or Honors 11th English ♦	Geometry/Accelerated Geometry or Algebra II or Trigonometry or Algebra II/Trig or College Algebra* ♦ or College Pre-Calculus	Biology	American Government or Advanced American Government	ACT Prep/A+ Tutoring Mass Media Programming Website Development Chromeland Network Administration	Digital Media Technology I	
	12	12th English or Advanced 12th English or College Comp I/II* ♦	Algebra II or Trigonometry or College Algebra* ♦ or College Pre-Calculus* ♦ or College Calculus* ♦	College Chemistry* ♦	Sociology College American History I/II* ♦ Psychology Psychology II	Mass Media Website Development II Business Law Accounting I CCE Chromeland Network Administration	Digital Media Technology II	

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**

Postsecondary Offerings – For A Complete Listing, go to www.missouriconnections.org

Postsecondary

Community College

- Crowder College www.crowder.edu
- East Central College www.eastcentral.edu
- Jefferson College www.jeffco.edu
- Metropolitan Community College www.mcckc.edu
- Mineral Area College www.mineralarea.edu
- Moberly Area Community College www.macc.edu
- North Central Missouri College www.ncmissouri.edu
- Ozarks Technical Comm College www.otc.edu
- St. Charles Community College www.stchas.edu
- St Louis Community College www.stlcc.edu
- State Fair Community College www.sfccmo.edu
- State Technical College of Missouri www.statetechmo.edu
- Three Rivers Community College www.trcc.edu

Technical School/Training Institution

- Davis Hart Career Center www.mexicoschools.net
- Herndon Career Center www.herndoncareercenter.com
- Kirksville Area Tech Center www.kirksville.k12.mo.us
- Lake Career & Technical Center – www.camdentonschools.org
- Rolla Tech Institute – www.rolla.k12.mo.us
- Waynesville Technical Academy www.waynesville.k12.mo.us

In State

- A.T. Skill University of Health Sciences www.atsu.edu
- Avila University - www.avila.edu
- Bryan College - www.bryancollege.com
- Central Methodist University www.centralmethodist.edu
- College of the Ozarks - www.coto.edu
- Columbia College - www.ccis.edu
- Culver-Stockton College - www.culver.edu
- DeVry University – www.devry.edu
- Drury University - www.drury.edu
- Evangel University - www.evangel.edu
- Everest College www.everest-college.com
- Fontbonne Univ - www.fontbonne.edu
- Hannibal-Lagrange College www.hlg.edu
- Harris-Stowe State Univ - www.hssu.edu
- Hickey College - www.hickeycollege.edu
- Lincoln University - www.lincolnu.edu
- Lindenwood Univ - www.lindenwood.edu
- Maryville Univ of St. Louis www.maryville.edu
- Missouri Baptist Univ - www.mobap.edu
- Missouri College www.missouricollege.com
- MO Southern State University www.mssu.edu
- Missouri State University www.missouristate.edu
- Missouri State University – West Plains www.wp.missouristate.edu
- Missouri Valley College www.moval.edu
- Missouri Western State University www.missouriwestern.edu
- Northwest Missouri State University www.nwmissouri.edu
- Park University - www.park.edu
- Rockhurst University - www.rockhurst.edu
- Saint Louis University www.imagine.stu.edu
- Sanford-Brown College www.sanford-browncollege.com
- Southeast MO State University www.semo.edu
- Southwest Baptist University www.sbuniv.edu
- Truman State Univ - www.truman.edu
- Univ of Central MO - www.ucmo.edu
- University of MO – Columbia www.missouri.edu
- University of MO – Kansas City www.umkc.edu
- Univ of MO – Rolla – www.umr.edu
- Univ of MO – St Louis - www.umsl.edu
- Univ of Phoenix – www.phoenix.edu
- Vatterott College www.vatterott-college.edu
- Washington University - www.wustl.edu
- Webster University www.websteruniv.edu
- Westminster College www.westminster-mo.edu
- William Jewell College - www.jewell.edu
- William Woods University www.williamwoods.edu

Other

- Apprenticeship
- Military
- On-the-Job Training

Colorado Technical University www.coloradotech.com
Grantham University www.grantham.edu
ITT Technical Institute www.itt-tech.edu
Kansas City Art Institute www.kcai.edu
Midwest Institute www.midwestinstitute.com
Missouri Tech www.motech.edu
National American University www.national.edu
Pinnacle Career Institute www.pcitraining.edu
Texas County Technical Institute www.texascountytech.edu

Sample Careers By Educational Level – For Occupational Specialties, go to www.careerclusters.org or www.missouriconnections.org

On-the-Job Training or Less	Technical Training or Associate Degree	Bachelor's Degree	Master's Degree or More
	Computer Operators Computer Support Specialists Network Systems and Data Communications Analysts Numerical Tool and Process Control Programmers Web Administrators Web Developers	Computer and Information Systems Managers Computer Engineers Computer Programmers Computer Security Specialists Computer Software Engineers Computer Systems Administrators Computer Systems Analysts Data Communications analysts Database Administrators Graphic Designers Multi-Media Artists and Animators Network and Computer Systems Administrators Software Quality Assurance Engineers and Testers	Computer and Information Scientists, Research Computer Science Teachers, Postsecondary Engineering Managers



De Soto High School
Law, Public Safety, Corrections & Security
Career Cluster Program of Study Template
www.desoto.k12.mo.us

Minimum Graduation Requirements	SUGGESTED COURSE OF HIGH SCHOOL STUDY It is suggested that students consider dual credit, articulation, or advanced placement opportunities for postsecondary credit.

	Grade	English	Math	Science	Social Studies	Required Courses, Elective Options	Area Technical School of Jefferson College	Additional Learning Opportunities
Secondary	9	9th English or Advanced 9th English	Intro to Algebra or Algebra I/ Accelerated Algebra I or Geometry/Accelerated Geometry	Physics 1st	World History or Advanced World History	PE /Health Foreign Language I Fine Art Leadership Career Opportunities		**School-Based:** ☐ *Career Research* ☐ *Cooperative Education* ☐ *Job Shadowing* ☐ *Other:* _____ **Community Based:** ☐ *Mentorship* ☐ *Volunteer* ☐ *Part-time Employment* ☐ *Other:* _____ **Assessments/Certifications**: ☐ *Technical Skills Attainment (TSA)* ☐ *Other:* _____ **Placement Assessments:** ☐ *Compass Test* ☐ *ACT* ☐ *PSAT* ☐ *SAT* ☐ *ASVAB* ☐ *Other:* _____ **Student Organizations:** ☐ *DECA* ☐ *FBLA* ☐ *Skills USA* ☐ *STUCO* ☐ *TREND* ☐ *Foreign Language Club* ☐ *Other:* _____
	10	10th English or Advanced 10th English	Algebra I or Geometry/Accelerated Geometry or Algebra II or Algebra II/Trig	General Chemistry or Advanced Chemistry	American History or Honors American History♦	Personal Finance/PE Foreign Language II Computer Apps/Multi Media Leadership		
	11	11th English or Honors 11th English♦	Geometry/Accelerated Geometry or Algebra II or Trigonometry or Algebra II/Trig or College Algebra*♦ or College Pre-Calculus	Biology	American Government or Advanced American Government	ACT Prep/A+ Tutoring Foreign Language III Business Law/Business Management Leadership		
	12	12th English or Advanced 12th English or College Comp I/II*♦	Algebra II or Trigonometry or College Algebra*♦ or College Pre-Calculus*♦ or College Calculus*♦	College Chemistry*♦	Sociology Contemporary History Modern American History College American History I/II*♦ Psychology Psychology II	Foreign Language IV CCE Leadership	Fire Science/EMT	

* Dual Credit ♦ Weighted Course For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php

Postsecondary Offerings - For A Complete Listing, go to www.missouriconnections.org

Postsecondary

Community College

Crowder College
www.crowder.edu
East Central College
www.eastcentral.edu
Jefferson College
www.jeffco.edu
Metropolitan Community College
www.mcckc.edu
Mineral Area College
www.mineralarea.edu
Moberly Area Community College
www.macc.edu
North Central MO College
www.ncmissouri.edu
Ozarks Tech Community College
www.otc.edu
St. Charles Community College
www.stchas.edu
St Louis Community College
www.stlcc.edu
State Fair Community College
www.sfccmo.edu
State Technical College of Missouri
www.statetechmo.edu
Three Rivers Community College
www.trcc.edu

Technical School/Training Institution

Cape Girardeau Career/Tech Center
www.cape.k12.mo.us/cc/default.htm
Columbia Career Center
www.career-center.org
Excelsior Springs Area Career Center
www.essd40.com/6/home
Grand River Tech School - www.grts.org
Hillyard Technical Center
www.hillyardtech.com
Kennett Career & Technology Center
www.kennett.k12.mo.us
Rolla Technical Institute
www.rolla.k12.mo.us
Saline County Career Center –
www.marshallschools.com/sccc
Sikeston Career and Technology Center
www.sikeston.k12.mo.us
South Central Career Center
www.wphs.k12.mo.us
Waynesville Technical Academy
www.waynesville.k12.mo.us

In State

Avila University - www.avila.edu
College of the Ozarks - www.coto.edu
Columbia College - www.ccis.edu
Drury University - www.drury.edu
Evangel University - www.evangel.edu
Everest College
www.everest-college.com
Hannibal-Lagrange College
www.hlg.edu
Hickey College
www.hickeycollege.edu
Lindenwood Univ - www.lindenwood.edu
Maryville University of St. Louis
www.maryville.edu
MO Southern State University
www.mssu.edu
Missouri State University
www.missouristate.edu
Missouri State University – West Plains
www.wp.missouristate.edu
Missouri Western State University
www.missouriwestern.edu
Park University - www.park.edu
Patricia Stevens College
www.patriciastevenscollege.edu
Rockhurst University
www.rockhurst.edu
Saint Louis Univ - www.imagine.stu.edu
Sanford-Brown College
www.sanford-browncollege.com
Southeast MO State University
www.semo.edu
Southwest Baptist University
www.sbuniv.edu
Univ of Central MO - www.ucmo.edu
University of MO – Columbia
www.missouri.edu
University of MO – Kansas City
www.umkc.edu
Univ of MO – St Louis - www.umsl.edu
Univ of Phoenix – www.phoenix.edu
Vatterott College
www.vatterott-college.edu
Washington University - www.wustl.edu
Webster University -
www.websteruniv.edu
William Woods University
www.williamwoods.edu

Other

- Apprenticeship
- Military
- On-the-Job Training

Allied College
www.alliedcollege.du
High Tech Institute
www.hightechinstitute.edu
National American University
www.national.edu
Texas County Technical Institute
www.texascountytech.edu

Sample Careers By Educational Level - For Occupational Specialties, go to www.careerclusters.org or www.missouriconnections.org

On-The-Job Training or Less	Technical Training or Associate Degree	Bachelor's Degree	Master's Degree or More
Ambulance Drivers	Correctional Officers and Jailers	Arbitrators and Mediators	Anthropology and Archeology Teachers, Postsecondary
Animal Control Workers	Court Reporters	Coroners	Child, Family, and School Social Workers
Bailiffs	Emergency Medical Technicians and Paramedics	Correctional Treatment Specialists	Criminal Justice and Law Enforcement Teachers, Postsecondary
Corrections Officers	Fire Inspectors	Criminal Investigators and Special Agents	Lawyer
Court Clerks	Fire Investigators	Emergency Management Specialists	Psychology Teachers, Postsecondary
Crossing Guards	First-Line Supervisors/Managers of Police and Detectives	Forensic Science Technicians	
Fire Fighters	Forest Fire Fighting and Prevention Supervisors	Immigration and Customs Inspectors	
Forest Fire Fighters	Forest Fire Inspectors and Prevention Specialists	Judges and Hearing Officers	
Gaming Surveillance Officers and Gaming Investigators	Legal Secretaries	Law Clerks	
Life Guards and Ski Patrollers	Municipal Fire Fighting and Prevention Supervisors	Probation Officers	
Parking Enforcement Officers	Paralegals and Legal Assistants		
Parking Enforcement Workers	Police Detectives		
Police, Fire, and Ambulance Dispatchers	Police Identification and Records Officers		
Security Guards	Police Patrol Officers		
Sheriffs	Private Detectives and Investigators		
Transportation Security Agents	Sheriffs and Deputy Sheriffs		
	Title Examiners, Abstractors, and Searchers		
	Transit and Railroad Police		

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**

De Soto High School
Manufacturing
Career Cluster Program of Study Template
www.desoto.k12.mo.us

Minimum Graduation Requirements	SUGGESTED COURSE OF HIGH SCHOOL STUDY It is suggested that students consider dual credit, articulation, or advanced placement opportunities for postsecondary credit.

	Grade	English	Math	Science	Social Studies	Required Courses, Elective Options	Area Technical School of Jefferson College	Additional Learning Opportunities
Secondary	9	9th English or Advanced 9th English	Intro to Algebra or Algebra I/ Accelerated Algebra I or Geometry/Accelerated Geometry	Physics 1st	World History or Advanced World History	PE /Health Foreign Language I Art I Leadership Career Opportunities		**School-Based:** ☐ *Career Research* ☐ *Cooperative Education* ☐ *Job Shadowing* ☐ *Other:* _____ **Community Based:** ☐ *Mentorship* ☐ *Volunteer* ☐ *Part-time Employment* ☐ *Other:* _____ **Assessments/Certifications**: ☐ *Technical Skills Attainment (TSA)* ☐ *Other:* _____ **Placement Assessments:** ☐ *Compass Test* ☐ *ACT* ☐ *PSAT* ☐ *SAT* ☐ *ASVAB* ☐ *Other:* _____ **Student Organizations:** ☐ *DECA* ☐ *FBLA* ☐ *Skills USA* ☐ *Other:* _____
	10	10th English or Advanced 10th English	Algebra I or Geometry/Accelerated Geometry or Algebra II or Algebra II/Trig	General Chemistry or Advanced Chemistry	American History or Honors American History♦	Personal Finance/PE Foreign Language II Computer Apps/Multi Media Intro to Industrial Technology	Metal Fabrication I Building Repair Technology I Residential Carpentry I	
	11	11th English or Honors 11th English♦	Geometry/Accelerated Geometry or Algebra II or Trigonometry or Algebra II/Trig or College Algebra*♦ or College Pre-Calculus	Biology	American Government or Advanced American Government	ACT Prep/A+ Tutoring Housing and Interior Design Website Development Graphic Arts Industrial Technology	Metal Fabrication II Building Repair Technology II Advanced Residential Carpentry Welding I	
	12	12th English or Advanced 12th English or College Comp I/II*♦	Algebra II or Trigonometry or College Algebra*♦ or College Pre-Calculus*♦ or College Calculus*♦			CCE Website Development II	Metal Fabrication III Building Repair Technology III Advanced Residential Carpentry Welding II Automotive Technology	

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**

Postsecondary Offerings – For A Complete Listing, go to www.missouriconnections.org

Postsecondary

Community College

Crowder College
www.crowder.edu
Jefferson College
www.jeffco.edu
Metropolitan Community College
www.mcckc.edu
Mineral Area College
www.mineralarea.edu
Moberly Area Comm College
www.macc.edu
North Central Missouri College
www.ncmissouri.edu
Ozarks Technical Comm College
www.otc.edu
St Louis Community College
www.stlcc.edu
State Fair Community College
www.sfccmo.edu
State Technical College of MO
www.statetechmo.edu
Three Rivers Community College
www.trcc.edu

Technical School/Training Institution

Carrollton Area Career Center
www.trojans.k12.mo.us
Colmbia Area Career Center – www.career-center.org
Eldon Career Ctr - www.eldoncareercenter.org
Grand River Tech School - www.grts.org
Herndon Career Center
www.herndoncareercenter.com
Hillyard Technical Center www.hillyardtech.com
Lake Career & Technical Center –
www.camdentonschools.org
Lamar Career and Technical Center
www.lamar.k12.mo.us
Lex La-Ray Tech Center
www.lexington.k12.mo.us
Lewis & Clark Career Center
www.stcharles.k12.mo.us/schools/lewis_clark.htm
Kennett Career & Technology Center
www.kennett.k12.mo.us
Kirksville Area Tech Center www.kirksville.k12.mo.us
North Central Career Center
www.shr2.k12.mo.us
Northland Career Center
www.northlandcareercenter.com
Northwest Tech School - www.maryville.k12.mo.us
Perryville Area Career/Tech Center
www.perryville.k12.mo.us
Poplar Bluff Technical Career Center www.r1schools.org
Ranken Tech College - www.ranken.edu
Sikeston Career & Technology Center
www.sikeston.k12.mo.us
South Central Career Center - www.wphs.k12.mo.us
Southwest Area Career Center - www.swacc.k12.mo.us

In State

Avila University - www.avila.edu
Baptist Bible College - www.baptist.edu
Bryan College - www.bryancollege.ecom
Central Methodist University
www.centralmethodist.edu
College of the Ozarks - www.coto.edu
Columbia College - www.ccis.edu
Culver-Stockton College - www.culver.edu
Drury University - www.drury.edu
Evangel University - www.evangel.edu
Everest College www.everest-college.edu
Fontbonne Univ - www.fontbonne.edu
Hannibal-Lagrange College -www.hlg.edu
Harris-Stowe State Univ - www.hssu.edu
Hickey College
www.hickeycollege.edu
Lincoln University - www.lincolnu.edu
Lindenwood Univ - www.lindenwood.edu
Maryville Univ of St. Louis
www.maryville.edu
Messenger College
www.messengercollege.edu
Missouri Baptist Univ - www.mobap.edu
Missouri College - www.missouricollege.com
MO Southern State Univ - www.mssu.edu
Missouri State University
www.missouristate.edu
Missouri State University – West Plains
www.wp.missouristate.edu
MO University of Science & Technology
www.mst.edu
Missouri Western State University
www.missouriwestern.edu
Northwest Missouri State University
www.nwmissouri.edu
Park University - www.park.edu
Rockhurst University - www.rockhurst.edu
Saint Louis University
www.imagine.stu.edu
Sanford-Brown College
www.sanford-browncollege.com
Southeast MO State Univ - www.semo.edu
Southwest Baptist Univ -www.sbuniv.edu
Stephens College - www.stephens.edu
Truman State Univ - www.truman.edu
Univ of Central MO - www.ucmo.edu
Univ of MO – Columbia -www.missouri.edu
Univ of MO – Kansas City www.umkc.edu
Univ of MO – St Louis - www.umsl.edu
University of Phoenix - www.phoenix.edu
Vatterott College -www.vatterott-college.edu
Washington University - www.wustl.edu
Webster University - www.websteruniv.edu
Westminster College
www.westminster-mo.edu
William Jewell College - www.jewell.edu
William Woods University
www.williamwoods.edu

Other

- Apprenticeship
- Military
- On-the-Job Training

Colorado Technical University
www.coloradotech.com
DeVry University
www.drury.edu
Foley-Belsaw Institute
www.foley-belsaw.com
Grantham University
www.grantham.edu
ITT Technical Institute
www.itt-tech.edu
National American University
www.national.edu
Texas County Technical Institute
www.texascountytech.edu

Sample Careers By Educational Level – For Occupational Specialties, go to www.careerclusters.org or www.missouriconnections.org

On-The-Job Training or Less	Technical Training or Associate Degree	Bachelor's Degree	Master's Degree or More
Crane and Tower Operators	Automotive Electronics Installers	Chemical Engineers	
Hoist and WinchOperators	Computer, ATM, and Office Machine Repairers	Occupational Health and Safety Specialists	
Locksmiths	Electric Motor Repairers	Safety Engineers	
Machinists	Home Electronics Repairers		
Metal and Plastic Processing Workers	Industrial Electronics Repairers		
Operating Engineers and Construction Equipment Operators	Jewelers		
Painting and Coating Machine Operators	Manufacturing Production Technicians		
Power Plant Operators	Security and Fire Alarm Systems Installers		
Precision Assemblers	Semiconductor Processing Operators		
Quality Control Inspectors	Welders and Solderers		
Small Engine Mechanics	Welding and Soldering Machine Operators		
Tailors			
Tire Building Machine Operators			
Tool and Die Makers			
Tool Grinders			
Upholsterers			
Vehicle Painters			
Woodworking Machine Operators			

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**



De Soto High School
Marketing
Career Cluster Program of Study Template
www.desoto.k12.mo.us

Minimum Graduation Requirements	SUGGESTED COURSE OF HIGH SCHOOL STUDY It is suggested that students consider dual credit, articulation, or advanced placement opportunities for postsecondary credit.

	Grade	English	Math	Science	Social Studies	Required Courses, Elective Options	Area Technical School of Jefferson College	Additional Learning Opportunities
Secondary	9	9th English or Advanced 9th English	Intro to Algebra or Algebra I/ Accelerated Algebra I or Geometry/Accelerated Geometry	Physics 1st	World History or Advanced World History	PE /Health Foreign Language I Art I Leadership Career Opportunities		**School-Based:** ☐ *Career Research* ☐ *Cooperative Education* ☐ *Job Shadowing* ☐ *Other:* _____ **Community Based:** ☐ *Mentorship* ☐ *Volunteer* ☐ *Part-time Employment* ☐ *Other:* _____ **Assessments/Certifications**: ☐ *Technical Skills Attainment (TSA)* ☐ *Other:* _____ **Placement Assessments:** ☐ *Compass Test* ☐ *ACT* ☐ *PSAT* ☐ *SAT* ☐ *ASVAB* ☐ *Other:* _____ **Student Organizations:** ☐ *DECA* ☐ *FBLA* ☐ *Skills USA* ☐ *STUCO* ☐ *Foreign Language Club* ☐ *Other:* _____
	10	10th English or Advanced 10th English	Algebra I or Geometry/Accelerated Geometry or Algebra II or Algebra II/Trig	General Chemistry or Advanced Chemistry	American History or Honors American History♦	Personal Finance/PE Foreign Language II Computer Apps/Multi Media Graphic Arts Leadership		
	11	11th English or Honors 11th English♦	Geometry/Accelerated Geometry or Algebra II or Trigonometry or Algebra II/Trig or College Algebra*♦ or College Pre-Calculus	Biology	American Government or Advanced American Government	ACT Prep/A+ Tutoring Foreign Language III Accounting I Business Law/Business Management Leadership		
	12	12th English or Advanced 12th English or College Comp I/II*♦	Algebra II or Trigonometry or College Algebra*♦ or College Pre-Calculus*♦ or College Calculus*♦	College Chemistry*♦	Sociology College American History I/II*♦ Psychology Psychology II	Foreign Language IV Website Development Advanced Development Accounting II CCE Leadership		

* Dual Credit ♦ Weighted Course For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php

Postsecondary Offerings – For A Complete Listing, go to www.missouriconnections.org

Postsecondary

Community College	Technical School/Training Institution	In State		Other
Crowder College www.crowder.edu East Central College www.eastcentral.edu Jefferson College www.jeffco.edu Metropolitan Community College www.mcckc.edu Mineral Area College www.mineralarea.edu Moberly Area Community College www.macc.edu North Central Missouri College www.ncmissouri.edu Ozarks Technical Comm College www.otc.edu St. Charles Community College www.stchas.edu St Louis Community College www.stlcc.edu State Fair Community College www.sfccmo.edu Three Rivers Community College www.trcc.edu	Columbia Area Career Center – www.career-center.org Eldon Career Center www.eldoncareercenter.org Hannibal Career and Technical Center www.hannibal.tec.mo.us Waynesville Technical Academy www.waynesville.k12.mo.us Northwest Technical School www.maryville.k12.mo.us Rankin Tech College - www.ranken.edu Rolla Tech Institute – www.rolla.k12.mo.us	Avila University - www.avila.edu Baptist Bible College - www.baptist.edu Bryan College - www.bryancollege.com Central Methodist University www.centralmethodist.edu College of the Ozarks - www.coto.edu Columbia College - www.ccis.edu Culver-Stockton College www.culver.edu DeVry University – www.devry.edu Drury University - www.drury.edu Evangel University - www.evangel.edu Everest College www.everest-college.com Fontbonne Univ - www.fontbonne.edu Hannibal-Lagrange College www.hlg.edu Harris-Stowe State Univ - www.hssu.edu Lincoln University - www.lincolnu.edu Lindenwood Univ - www.lindenwood.edu Maryville University of St. Louis www.maryville.edu Messenger College www.messengercollege.edu Missouri Baptist Univ - www.mobap.edu Missouri College www.missouricollege.com MO Southern State University www.mssu.edu Missouri State University www.missouristate.edu Missouri State University – West Plains www.wp.missouristate.edu Missouri Valley College www.moval.edu	Missouri Western State University www.missouriwestern.edu Northwest Missouri State University www.nwmissouri.edu Park University - www.park.edu Patricia Stevens College www.patriciastevenscollege.edu Rockhurst University - www.rockhurst.edu Saint Louis University www.imagine.stu.edu Sanford-Brown College www.sanford-browncollege.com Southeast MO State Univ -www.semo.edu Southwest Baptist Univ -www.sbuniv.edu Stephens College - www.stephens.edu Truman State Univ - www.truman.edu Univ of Central MO - www.ucmo.edu Univ of MO – Columbia - www.missouri.edu Univ of MO – Kansas City www.umkc.edu Univ of MO – Rolla – www.umr.edu Univ of MO – St Louis - www.umsl.edu Univ of Phoenix – www.phoenix.edu Vatterott College www.vatterott-college.edu Washington University - www.wustl.edu Webster University - www.websteruniv.edu Westminster College www.westminster-mo.edu William Jewell College - www.jewell.edu William Woods University www.williamwoods.edu	• Apprenticeship • Military • On-the-Job Training Colorado Technical University www.coloradotech.com Grantham University www.grantham.edu ITT Technical Institute www.itt-tech.edu National American University www.national.edu

Sample Careers By Educational Level – For Occupational Specialties, go to www.careerclusters.org or www.missouriconnections.org

On-the-Job Training or Less	Technical Training or Associate Degree	Bachelor's Degree	Master's Degree or More
Advertising Salespeople Buyers and Purchasing Agents Cashiers Counter and Rental Clerks Demonstrators and Promoters Floral Designers Merchandise Displayers Models Opticians Parts Salespeople Retail Salespeople Route Salespeople Telemarketers	Advertising Sales Agents Assessors Fashion Designers Interior Designers Lodging Managers Property, Real Estate, and Community Association Managers Real Estate Brokers Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products Travel Agents Travel Guides Wholesale and Retail Buyers, Except Farm Products	Art Directors Editors Market Research Analysts Public Relations Specialists Sales Managers Sales Representatives Survey Researchers Technical Writers	Business Teacher, Postsecondary Marketing Managers Public Relations Managers Purchasing Managers Sales Managers

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**

De Soto High School
Science, Technology, Engineering & Mathematics
Career Cluster Program of Study Template
www.desoto.k12.mo.us

Minimum Graduation Requirements	SUGGESTED COURSE OF HIGH SCHOOL STUDY It is suggested that students consider dual credit, articulation, or advanced placement opportunities for postsecondary credit.

	Grade	English	Math	Science	Social Studies	Required Courses, Elective Options	Area Technical School of Jefferson College	Additional Learning Opportunities
Secondary	9	9th English or Advanced 9th English	Intro to Algebra or Algebra I/ Accelerated Algebra I or Geometry/Accelerated Geometry	Physics 1st	World History or Advanced World History	PE /Health Foreign Language I Fine Art Leadership Career Opportunities		**School-Based:** ☐ *Career Research* ☐ *Cooperative Education* ☐ *Job Shadowing* ☐ *Other:* _____ **Community Based:** ☐ *Mentorship* ☐ *Volunteer* ☐ *Part-time Employment* ☐ *Other:* _____ **Assessments/Certifications**: ☐ *Technical Skills Attainment (TSA)* ☐ *Other:* _____ **Placement Assessments:** ☐ *Compass Test* ☐ *ACT* ☐ *PSAT* ☐ *SAT* ☐ *ASVAB* ☐ *Other:* _____ **Student Organizations:** ☐ *DECA* ☐ *FBLA* ☐ *STUCO* ☐ *Science Club* ☐ *Math Club* ☐ *Foreign Language Club* ☐ *Other:* _____
	10	10th English or Advanced 10th English	Algebra I or Geometry/Accelerated Geometry or Algebra II or Algebra II/Trig	General Chemistry or Advanced Chemistry	American History or Honors American History♦	Personal Finance/PE Foreign Language II Computer Apps/Multi Media Chromeland Network Administration Leadership		
	11	11th English or Honors 11th English♦	Geometry/Accelerated Geometry or Algebra II or Trigonometry or Algebra II/Trig or College Algebra*♦ or College Pre-Calculus	Biology	American Government or Advanced American Government	ACT Prep/A+ Tutoring Programming Foreign Language III Chromeland Network Administration Graphic Arts Leadership		
	12	12th English or Advanced 12th English or College Comp I/II*♦	Algebra II or Trigonometry or College Algebra*♦ or College Pre-Calculus*♦ or College Calculus*♦	Physics College Chemistry*♦	College American History I/II*♦	Foreign Language Website Development Website Development II CCE Chromeland Network Administration Leadership		

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**

Postsecondary

Postsecondary Offerings – For A Complete Listing, go to www.missouriconnections.org

Community College	Technical School/Training Institution	In State		Other
Crowder College www.crowder.edu East Central College www.eastcentral.edu Jefferson College www.jeffco.edu Metropolitan Community College www.mcckc.edu Moberly Area Community College www.macc.edu St. Charles Community College www.stchas.edu St Louis Community College www.stlcc.edu State Fair Community College www.sfccmo.edu Three Rivers Community College www.trcc.edu	BoonslickTechnical Education Center – www.boonville.k12.mo.us/schools/btec Missouri Tech www.motech.edu	Avila University - www.avila.edu Central Methodist University www.centralmethodist.edu College of the Ozarks - www.coto.edu Columbia College - www.ccis.edu Culver-Stockton College www.culver.edu Drury University - www.drury.edu Evangel University - www.evangel.edu Lincoln University - www.lincolnu.edu Lindenwood Univ - www.lindenwood.edu Maryville University of St. Louis www.maryville.edu Missouri Baptist Univ - www.mobap.edu MO Southern State University www.mssu.edu Missouri State University www.missouristate.edu MO University of Science & Technology www.mst.edu Missouri Western State University www.missouriwestern.edu	Northwest Missouri State University www.nwmissouri.edu Park University - www.park.edu Rockhurst University www.rockhurst.edu Saint Louis University www.imagine.stu.edu Southeast MO State University www.semo.edu Southwest Baptist University www.sbuniv.edu Truman State Univ - www.truman.edu Univ of Central MO - www.ucmo.edu University of MO – Columbia www.missouri.edu University of MO – Kansas City www.umkc.edu Univ of MO – Rolla – www.umr.edu Univ of MO – St Louis - www.umsl.edu Washington University - www.wustl.edu Westminster College www.westminster-mo.edu William Jewell College - www.jewell.edu	• Apprenticeship • Military • On-the-Job Training Grantham University www.grantham.edu

Sample Careers By Educational Level – For Occupational Specialties, go to www.careerclusters.org or www.missouriconnections.org

On-the-Job Training or Less	Technical Training or Associate Degree	Bachelor's Degree	Master's Degree or More
	Electronics Engineering Technologists Engineering Technicians Manufacturing Engineering Technologists Science Technicians	Aerospace Engineers Biomedical Engineers Cartographers Chemists Civil Engineers Electrical and Electronics Engineers Energy Engineers Environmental Engineers Geospatial Information Scientists and Technologists Industrial Engineers Manufacturing Engineers Materials Engineers Mechanical Engineers Meteorologists Mining Engineers Nuclear Engineers Petroleum Engineers Photonics Engineers Remote Sensing Scientists and Technologists	Anthropologists Archeologists Astronomers Biologists Environmental Scientists Geographers Geologists and Geophysicists Historians Mathematicians Physicists Political Scientists Robotics Engineers Sociologists

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**



De Soto High School
Transportation, Distribution & Logistics
Career Cluster Program of Study Template
www.desoto.k12.mo.us

Minimum Graduation Requirements	SUGGESTED COURSE OF HIGH SCHOOL STUDY It is suggested that students consider dual credit, articulation, or advanced placement opportunities for postsecondary credit.

	Grade	English	Math	Science	Social Studies	Required Courses, Elective Options	Area Technical School of Jefferson College	Additional Learning Opportunities
Secondary	9	9th English or Advanced 9th English	Intro to Algebra or Algebra I/ Accelerated Algebra I or Geometry/Accelerated Geometry	Physics 1st	World History or Advanced World History	PE /Health Foreign Language I Fine Art Leadership Career Opportunities		**School-Based:** ☐ *Career Research* ☐ *Cooperative Education* ☐ *Job Shadowing* ☐ *Other:* _____ **Community Based:** ☐ *Mentorship* ☐ *Volunteer* ☐ *Part-time Employment* ☐ *Other:* _____ **Assessments/Certifications:** ☐ *Technical Skills Attainment (TSA)* ☐ *Other:* _____ **Placement Assessments:** ☐ *Compass Test* ☐ *ACT* ☐ *PSAT* ☐ *SAT* ☐ *ASVAB* ☐ *Other:* _____ **Student Organizations:** ☐ *DECA* ☐ *FBLA* ☐ *FCCLA* ☐ *Skills USA* ☐ *Other:* _____
	10	10th English or Advanced 10th English	Algebra I or Geometry/Accelerated Geometry or Algebra II or Algebra II/Trig	General Chemistry or Advanced Chemistry	American History or Honors American History ♦	Personal Finance/PE Foreign Language II Computer Apps/Multi Media Leadership		
	11	11th English or Honors 11th English ♦	Geometry/Accelerated Geometry or Algebra II or Trigonometry or Algebra II/Trig or College Algebra* ♦ or College Pre-Calculus	Biology	American Government or Advanced American Government	ACT Prep/A+ Tutoring Accounting I Business Law/Business Management Graphic Arts Leadership		
	12	12th English or Advanced 12th English or College Comp I/II* ♦	Algebra II or Trigonometry or College Algebra* ♦ or College Pre-Calculus* ♦ or College Calculus* ♦			Accounting II CCE Leadership	Automotive Technology	

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**

Postsecondary Offerings – For A Complete List of Colleges, go to www.missouriconnections.org

Postsecondary

Community College

Crowder College
www.crowder.edu
East Central College
www.eastcentral.edu
Hannibal-Lagrange College
www.hlg.edu
Jefferson College
www.jeffco.edu
Metropolitan Community College
www.mcckc.edu
Mineral Area College
www.mineralarea.edu
Moberly Area Community College
www.macc.edu
North Central Missouri College
www.ncmissouri.edu
Ozarks Technical Comm College
www.otc.edu
Ranken Technical College
www.ranken.edu
Sanford-Brown College
www.sanford-browncollege.com
St Louis Community College
www.stlcc.edu
State Fair Community College
www.sfccmo.edu
State Technical College of Missouri
www.statetechmo.edu
Three Rivers Community College
www.trcc.edu

Technical School/Training Institutions

Cape Girardeau Career/Tech Center
www.cape.k12.mo.us/cc/default.htm
Clinton Technical School - www.clinton.k12.mo.us
Davis Hart Career Ctr- www.mexicoschools.net
Eldon Career Ctr - www.eldoncareercenter.org
Four Rivers Career Center
www.washington.k12.mo.us
Franklin Technology- MSSU www.ftcjoplin.com
Gibson Tech Ctr - www.wolves.k12.mo.us/gtc
Grand River Technical School - www.grts.org
Hannibal Career and Technical Center
www.hannibal.tec.mo.us
Herndon Career Center -
www.herndoncareercenter.com
Hillyard Technical Ctr - www.hillyardtech.com
Kennett Career &Technology Center –
www.kennett.k12.mo.us
Kirksville Area Tech Ctr - www.kirksville.k12.mo.us
Lake Career and Technical Center
www.camdentonschools.org
Lebanon Technology and Career Ctr
www.lebanon.k12.mo.us/ltcc
Lex La-Ray Tech Ctr www.lexington.k12.mo.us
Nichols Career Center - www.jcps.k12.mo.us
Northland Career Center
www.northlandcareercenter.com
Northwest Tech School www.maryville.k12.mo.us
Pike-Lincoln Tech Ctr - www.pltc.k12.mo.us
Poplar Bluff Tech Career Center – www.r1schools.org
Rolla Tech Institute - www.rolla.k12.mo.us
Saline County Career Center
www.marshallschools.com/sccc
Sikeston Career & Technology Center
www.sikeston.k12.mo.us
South Central Career Ctr - www.wphs.k12.mo.us
Waynesville Technical Academy
www.waynesville.k12.mo.us

In State

Avila University - www.avila.edu
Baptist Bible College - www.baptist.edu
Bryan College - www.bryancollege.com
Central Methodist University
www.centralmethodist.edu
College of the Ozarks - www.cofo.edu
Columbia College - www.ccis.edu
Culver-Stockton College - www.culver.edu
DeVry University - www.devry.edu
Drury University - www.drury.edu
Evangel University - www.evangel.edu
Everest College - www.everest-college.edu
Fontbonne Univ - www.fontbonne.edu
Grantham Univ - www.grantham.edu
Harris-Stowe State Univ - www.hssu.edu
Lincoln University - www.lincolnu.edu
Lindenwood Univ - www.lindenwood.edu
Maryville University of Saint Louis
www.maryville.edu
Messenger College
www.messengercollege.edu
Missouri Baptist Univ - www.mobap.edu
Missouri College
www.missouricollege.com
Missouri Southern State University
www.mssu.edu
Missouri State University
www.missouristate.edu
Missouri State Univ – West Plains
www.wp.missouristate.edu
Missouri University of Science & Tech
www.mst.edu
Missouri Western State University
www.missouriwestern.edu
Northwest Missouri State University
www.nwmissouri.edu
Park University - www.park.edu
Rockhurst Univ - www.rockhurst.edu
Patricia Stevens College
www.patriciastevenscollege.edu
St. Louis Univ - www.imagine.slu.edu
Southeast Missouri State University
www.semo.edu
Southwest Baptist University
www.sbuniv.edu
Stephens College - www.stephens.edu
Truman State Univ - www.truman.edu
University of Central MO - www.ucmo.edu
University of Missouri – Columbia
www.missouri.edu
University of Missouri – Kansas City
www.umkc.edu
University of Missouri – St Louis
www.umsl.edu
Univ of Phoenix - www.phoenix.edu
Vatterott College
www.vatterott-college.edu
Washington University - www.wustl.edu
Webster Univ - www.websteruniv.edu
Westminster College
www.westminster-mo.edu
William Jewell College - www.jewell.edu
William Woods University
www.williamwoods.edu

Other

- Apprenticeship
- Military
- On-the-Job Training

Aviation Institute of Maintenance
www.aviationmaintenance.edu
Colorado Technical University
www.coloradotech.com
American Truck Training
www.americantrucktraining.com
C-1 Truck Driver Training
www.c1training.com
ITT Technical Institute
www.itt-tech.edu
Midwestern Training Center
National American University
www.national.edu
Nuway Truck Driver Training
www.nuwaytruckschools.com
Southern MO Truck Driving School
www.smtds.com
Westwind CDL Training Center
www.westwinddcl.com
Witte Truck Driving School

Sample Careers By Educational Level – For Occupational Specialties, go to www.careerclusters.org or www.missouriconnections.org

On-the-Job Training or Less	Technical Training or Associate Degree	Bachelor's Degree	Master's Degree or More
Air Traffic Controllers and Flight Attendants Auto Body Repairers Bicycle Repairers Bus Drivers and School Bus Drivers Dispatchers and Traffic Technicians Freight Handlers Heavy Equipment Mechanics Heavy Truck Drivers Motorboat & Motorcycle Mechanics Parking Lot Attendants Riggers Service Station Attendants, Tire Repairers and Changers Transportation Agents	Aircraft Mechanic Automobile Mechanics Bus and Truck Mechanics and Diesel Engine Specialists Electrical/Electronics Installers/Repairers, Transportation Equipment Electronic Equipment Installers/Repairers, Motor Vehicles First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand First-Line Supervisors/Managers of Transportation Material-Moving Machine and Vehicle Operators Motorboat Mechanics and Motorcycle Mechanics Signal and Track Switch Repairers Traffic Technicians Transportation Vehicle, Equipment/Systems Inspectors	Airline Pilot Logisticians Storage and Distribution Managers	Chief Executive

*** Dual Credit** **♦ Weighted Course** **For Information on Transfer Course Library approved by Coordinating Board of Higher Education - http://dhe.mo.gov/CoreTransfer.php**

ENGLISH

Course Title	Prerequisite	Grade Level	Sem/Year
9TH English	None	9	Year
Advanced 9TH English	Placement Test	9	Year
10TH English	9TH English	10	Year
Advanced 10TH English	9TH English (A- or above) or Advanced 9TH English (B or above)	10	Year
11TH English	10TH English	11	Year
Honors 11TH English	10TH English (A- or above) or Advanced 10TH English (B or above)	11	Year
12TH English	11TH English	12	Year
Advanced 12TH English	11TH English; College Bound Student	12	Year
College Composition I	See Description	12	1ST Semester
College Composition II	See Description	12	2ND 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. The grammar study centers on the parts of speech, parts of a sentence, usage, and mechanics. 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.

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. It will center on parts of a sentence, subject/verb agreement, usage, punctuation, and phrases and clauses emphasizing essay writing and a research paper. The study of literature will include units related to the short story, the 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 student. There will be additional emphasis on the ACT objectives and preparation for Honors 11th English. Heavy emphasis is placed on novels, plays, and research. A teacher assigned summer reading will be required. 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, paragraph, 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 bright and highly motivated students. There will be additional emphasis on the ACT objectives and preparation for Advanced 12TH English or College Composition. Heavy emphasis is placed on novels. A teacher assigned summer reading will be required.

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. Students will focus on eight power strategies that proficient readers use: content and specialized vocabulary, text features, text structures, monitoring understanding, previewing text, activating background knowledge, questioning, and summarizing, noting and retrieving information. This course is designed to challenge students and prepare them for reading/writing in college and/or the workplace while meeting various needs and learning styles of the students.

CLASS: ADVANCED 12 TH 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. While using a thematic chronology of British Literature to explore some of its many genres, the students will be taught to identify literary elements and devices that are subtly embroidered into the sophisticated tapestry of these literary classics. Students will be required to read a variety of poems and essays, 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. Grammar skills will be practiced on a daily basis. 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, two 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 Writing 92+ and Accuplacer Reading 85+
.5 CREDIT (Semester 1)
CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA

COURSE DESCRIPTION: This course is an alternative to 12TH English. The course offers the high school senior, who has qualified, dual credit for both De Soto High and Jefferson College. The course emphasizes the study of persuasive, narrative, descriptive, and expository writing. Supplementary study and testing cover grammar, mechanics, punctuation, and word usage. Composition skills require drafting, revising, editing, and proofreading. A term paper is a course requirement. A teacher assigned summer reading will be required. **Dual enrollment 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 Writing 92+ and Accuplacer Reading 85+**
.5 CREDIT (Semester 2)
CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA

COURSE DESCRIPTION: This course is a continuation of College Composition I. In addition, College Composition II uses supplementary reading as the basis for much of the writing. Students will be required to complete a Senior Memory Book.
Dual enrollment class for 3 credit hours of Jefferson College credit will be issued with a passing grade.

SOCIAL STUDIES

Course Title	Prerequisite	Grade Level	Sem/Year
World History	None	9	Year
Advanced World History	Placement Test	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
Leadership	See Description Below	9, 10, 11, 12	Semester
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
College American History I	See Description Below	12	1ST Semester
College American History II	See Description Below	12	2ND 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: ADVANCED WORLD HISTORY**
GRADE LEVEL: 9
PREREQUISITES: Placement test given in 8TH grade determines eligibility
1 CREDIT
CAREER PATHWAY CODE: HUS

COURSE DESCRIPTION: This course presents a chronological narrative of World History from the Renaissance and Reformation to the present. This advanced World History course will take a look into various subject matter utilizing individual reading, in depth discussion, research based analysis and writing that will dig deeper into the various topics covered. Assignments and exams will often be more analysis based allowing students to use their research and understanding to be shared through written expression. Through the study of World History, one will become familiar with the varied experiences of people from the Renaissance and Reformation period to present. 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 as in the regular American History course, the pace is faster 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

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: LEADERSHIP
GRADE LEVEL: 9-12
PREREQUISITES: 2.5 GPA, 2 Teacher Recommendations, Application
.5 CREDIT
CAREER PATHWAY CODE: HUS

COURSE DESCRIPTION: The purpose of this course is 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: 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, 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, a creativity project and an "Ideal Teacher" 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: 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 enrollment 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 enrollment for 3 credit hours of Jefferson College credit will be issued with a passing grade.**

SCIENCE

Course Title	Prerequisite	Grade Level	Sem/Year
Physics First	None	9	Year
General Chemistry	Physics First	10	Year
Advanced General Chemistry	Algebra I (C or above)	10	Year
Biology	General Chemistry	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 Current Enrollment in Biology	11, 12	Semester
Zoology	Biology (C or above) or Current Enrollment in Biology	11, 12	Semester
College Chemistry	See Description	12	Year
Honors Anatomy and Physiology	Current Enrollment in Biology and Chemistry (C or above)	11, 12	Year
Physics	Trig (C or above) or Current Enrollment in Trig	11, 12	Year

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

CLASS: PHYSICS FIRST**
GRADE LEVEL: 9
PREREQUISITES: None
1 CREDIT
CAREER PATHWAY CODE: HLS, NRA

COURSE DESCRIPTION: In this required course, students will study the physical world and how it works. Through discussion, research, and lab experiences, students will explore ideas such as energy, electricity, motion and force, and how these key ideas are represented in real world situations. Students will then be asked to apply and demonstrate their learning in this area through hands-on projects like catapults, roller coasters, electrical panels, throwing baseballs, rolling various objects as well as other projects throughout the year.

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 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 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, dissections of frog and worm, microscope labs looking at deadly bacteria, specialized cells, living cells, unicellular protists, and microscopic animals. Labs will also include genetically engineering a bacteria to be antimicrobial resistant along with many other simulations and projects. End-of-Course (EOC) Exam administered upon successful completion of course.

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 and ankle. 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.

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

COURSE DESCRIPTION: In this elective course, students in Botany will focus on the structure, function, characteristics, life processes, diversity, reproduction/heredity, adaptation/evolution, and ecology as it relates to plant life. Coursework includes numerous laboratory investigations including an in-depth look at the photosynthetic reaction, along with structure and function of the roots, leaves, and stems. Life-skills include germinating, planting and growing a variety of ornamental and gardening plants, care and fertilizing while also considering composting/decomposition and the role these processes play in our world. This course also includes a field trip to the Missouri Botanical Gardens to view plants and complete a project.

CLASS: ZOOLOGY**
GRADE LEVEL: 11 or 12
PREREQUISITES: Biology (C or above) or Current Enrollment in Biology
.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.
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. **Eligible 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. If wanting to go into any health or medical field, this course should be on your schedule. Learn it now and get a leg up for college.

CLASS: PHYSICS**
GRADE LEVEL: 11 or 12
PREREQUISITES: Trig (C or above) or Current Enrollment in Trig
1 CREDIT
CAREER PATHWAY CODE: HLS, NRA

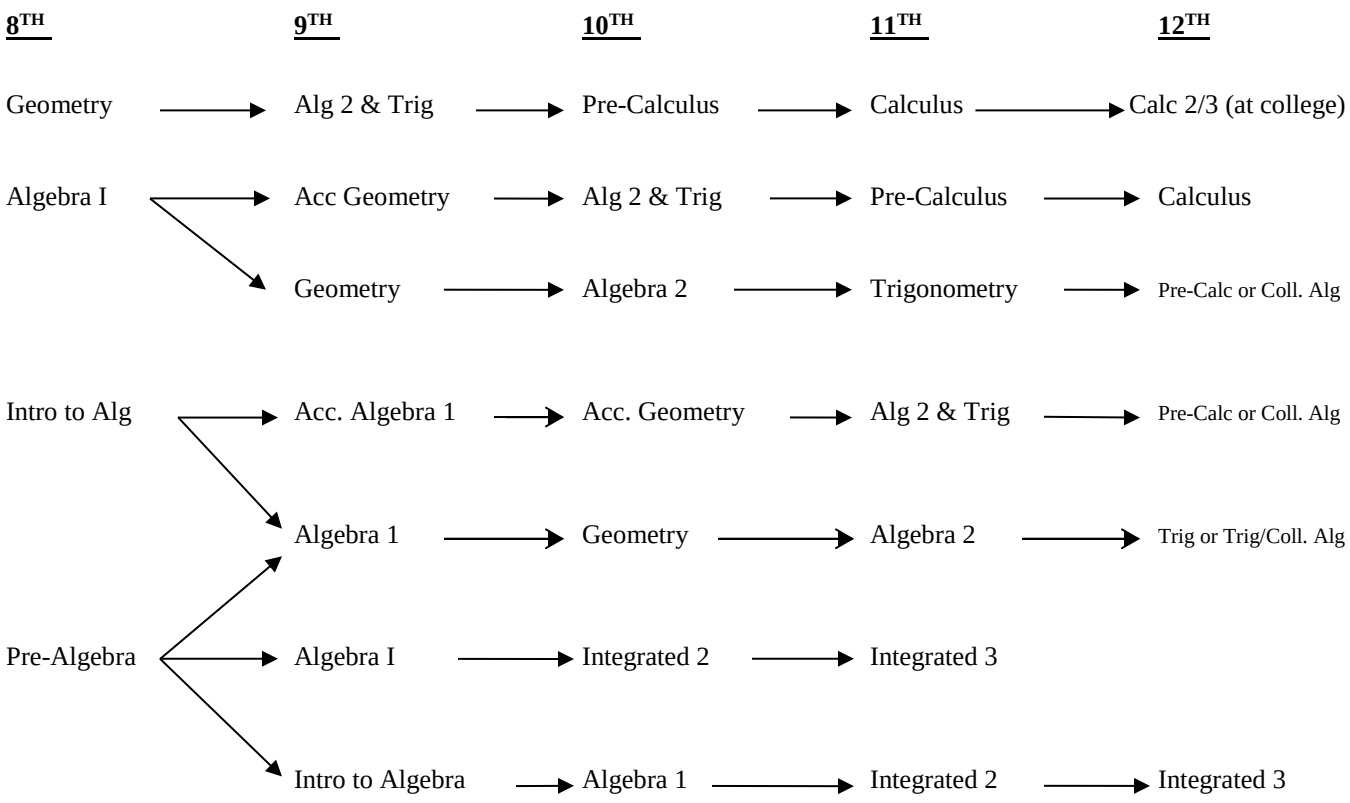
COURSE DESCRIPTION: Physics is the study of matter and energy and their interactions in the physical world. The course is math oriented utilizing algebra and trigonometry skills. Students will focus on the concepts of mechanics of motion and energy. Emphasis will include a study of motion in a straight line, projectile motion, harmonic motion, dynamics, momentum, wave motion, acoustics, electricity, gravitation, work, and power.

MATH

Course Title	Prerequisite	Grade Level	Sem/Year
Introduction to Algebra	See Description	9	Year
Algebra I	None	N/A	Year
Algebra I Concepts	See Description	N/A	2ND Semester
Accelerated Algebra I	See Description	9	Year
Geometry	Algebra I (C or above)	N/A	Year
Accelerated Geometry	See Description	9, 10	Year
Algebra II	See Description	N/A	Year
Trigonometry	Algebra II (C or above)	N/A	1ST Semester/Year
Algebra II and Trigonometry	See Description	N/A	Year
Integrated II	See Description	N/A	Year
Integrated III	See Description	11, 12	Year
College Algebra	See Description	11, 12	Semester
College Pre-Calculus	Trig or Algebra II and Trig (C or above)	10, 11, 12	Year
College Calculus	See Description	11, 12	Year

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

Math Flow Chart



CAREER PATH CODES

AC= Arts & Communication
BMT= Business Management/Technology
HLS= Health Services
HUS= Human Services
IET= Industrial/Engineering Technology
NRA= Natural Resources/Agriculture

CLASS: INTRODUCTION TO ALGEBRA
GRADE LEVEL: 9
PREREQUISITES: Placement test scores, 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 freshman students who have tested below grade level in math and not yet ready for Algebra I. 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: None
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 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 I CONCEPTS
GRADE LEVEL: N/A
PREREQUISITES: Grade of "F" in 1ST semester of Algebra I
.5 CREDIT (Semester 2)
CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA

COURSE DESCRIPTIONS: 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, solving equations and inequalities, linear equations, systems of equations/inequalities and absolute value equations. **This course is graded on a Pass/Fail system.**

CLASS: ACCELERATED ALGEBRA I**
GRADE LEVEL: 9
PREREQUISITES: Placement test scores, grades in previous math classes, MAP test results and teacher recommendation
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.

CLASS: GEOMETRY**
GRADE LEVEL: N/A
PREREQUISITES: Algebra I (C or above)
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: Accelerated Algebra I or 8TH grade Algebra I (B or above) or Algebra I with a teacher recommendation
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: Completion of Geometry or dual enrollment in Geometry with teacher's permission or 8TH grade Algebra I (C or above)
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 and a thorough treatment of logarithmic and exponential functions, the solutions to higher degree equations, and an introduction to probability and statistics. Two of the major goals of the course are to prepare students for the ACT exam and College Algebra.

CLASS: TRIGONOMETRY**
GRADE LEVEL: N/A
PREREQUISITES: Algebra II (C or above)
.5 or 1.0 CREDIT
CAREER PATHWAY CODE: HLS, IET

COURSE DESCRIPTION: This course is made up of topics from algebra, geometry, trigonometry, discrete mathematics and mathematical analysis interwoven to form a fully integrated text. A rigorous treatment of Euclidean geometry is also presented. Time is spent developing geometric concepts and writing proofs. Word problems are developed throughout the problem sets and become progressively more elaborate. With this practice, students will be able to solve challenging problems such as rate problems and work problems involving abstract quantities. The graphing calculator is used to graph functions and perform data analysis. Conceptual-oriented problems that prepare students for college entrance exams (such as the ACT and SAT) are included in the problem sets. Other topics include: permutations, fundamental counting principle, logarithms and geometric constructions.

CLASS: ALGEBRA II AND TRIGONOMETRY**
GRADE LEVEL: N/A
PREREQUISITES: Algebra I AND Geometry (B or above) or dual enrollment in Geometry with teacher recommendation.
1 CREDIT
CAREER PATHWAY CODE: HLS, IET

COURSE DESCRIPTION: This course consists of a comprehensive review and expansion of the topics discussed in Algebra I and a thorough treatment of logarithmic and exponential functions, solutions to higher ordered equations, matrix algebra, conic sections, sequences and series, as well as trigonometric functions, identities, and equations. Two of the major goals of this course are to prepare students for College Algebra and Pre-Calculus.

CLASS: INTEGRATED II**
GRADE LEVEL: N/A
PREREQUISITES: Algebra I with Teacher Recommendation
1 CREDIT
CAREER PATHWAY CODE: AC, BMT, HLS, HUS, IET, NRA

COURSE DESCRIPTION: Integrated II is an integrated mathematics course structured around the strands of number and operations, algebraic relationships, geometric and spatial relationships, measurements, and data and probability. Algebra I End-of-Course (EOC) Exam administered upon successful completion of course.

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 structured around the strands of number and operations, algebraic relationships, geometric and spatial relationships, measurements, and data and probability. Major topics will include both algebraic concepts (quadratic functions and relations, and exponential and logarithmic functions and relations) as well as geometric concepts (reasoning and proof, congruent and similar triangles, and circles).

CLASS: COLLEGE ALGEBRA**
GRADE LEVEL: 12, .025 Weighted
PREREQUISITES: 3.0 GPA (No ACT scores required), full year of Trigonometry or full year of Algebra II/Trig (C or Above)
.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 enrollment class for 3 credit hours of Jefferson College credit with a passing grade.**

CLASS: COLLEGE PRE-CALCULUS**
GRADE LEVEL: 10, 11 or 12, .025 Weighted
PREREQUISITES: 3.0 GPA (22 Math ACT) full year of Trigonometry or Algebra II/Trig (C or above)
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 enrollment 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 1**
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 enrollment class for 5 credit hours of Jefferson College credit with a passing grade. If you do not meet requirement above, you may take this course for high school credit only; college credit will not be issued.**

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 (C or above)	11, 12	Year
French IV	French III (C 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 (C or above)	11, 12	Year
Spanish IV	Spanish III (C 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 hearing, speaking, reading, and writing 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 hearing, speaking, reading, and writing 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 (C 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 (C 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.

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 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 hearing, speaking, reading, and writing 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 (C 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 (C 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.

BUSINESS

(Practical Arts)

Course Title	Prerequisite	Grade Level	Sem/Year
Career Opportunities	None	9, 10, 11, 12	Semester
Computer Applications	None	9, 10, 11, 12	Semester
Multimedia	Computer Applications	9, 10, 11, 12	Semester
Graphic Arts	Multimedia (C or above)	10, 11, 12	Semester
Programming-C++	Algebra I (C or above)	11, 12	Semester
Programming-JAVA	Algebra I (C or above)	11, 12	Semester
Website Development	Computer Applications	10, 11, 12	Semester
Website Development II	Website Development (C or above) and teacher recommendation	10, 11, 12	Semester
Chromeland Support- Network Administration	Application	10, 11, 12	Year
Personal Finance	None	10, 11, 12	Semester
Business Law	None	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
Mass Media	Application	9, 10, 11, 12	Year
CCE	Application	12	Year
CCE Supervision	Application	12	Year

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: 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
.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: Multimedia (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-C++
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 C++. 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: 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: 10-12
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 webpages using Dreamweaver software.

CLASS: WEBSITE DEVELOPMENT II
GRADE LEVEL: 10-12
PREREQUISITES: Website Development (C or above) and Teacher Recommendation
.5 CREDIT (Semester 2)
CAREER PATHWAY CODE: AC, BMT

COURSE DESCRIPTION: Students will expand their skills from Website by using software to enhance their web pages (Dreamweaver, Photoshop, etc.) as well as learn new tags for Cascading Style Sheets or other advanced features of HTML. Students will also be introduced to JavaScript, JAVA, and jQuery to enhance their webpages.

CLASS: CHROMELAND SUPPORT-NETWORK ADMINISTRATION
GRADE LEVEL: 10-12
PREREQUISITES: Application
1.0 CREDIT
CAREER PATHWAY CODE: AC, BMT

COURSE DESCRIPTION: This course is for self-motivated students who are willing and able to work independently and as a group. Students will experience hands-on study of technology integration, hardware and software installation, troubleshooting and repair, customer service and effective communication (emails, tutorials, video, and newsletters), problem solving strategies, teamwork, and the ability to research, analyze and apply industry best practices in a Google environment. Students will also complete coursework through TestOut in PC Pro (1st yr) and Network Pro (2nd yr). After the completion of the coursework each year, students can test to receive a CompTIA Approved certificate.

CLASS: PERSONAL FINANCE
GRADE LEVEL: 10-12
PREREQUISITES: None
.5 CREDIT
CAREER PATHWAY CODE: BMT

COURSE DESCRIPTION: Subjects discussed during this course include: 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.**

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: 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: MASS MEDIA (YEARBOOK)
GRADE LEVEL: 9-12
PREREQUISITES: Application
1 CREDIT (Practical Arts)
CAREER PATHWAY CODE: AC, BMT

COURSE DESCRIPTION: The Mass Media course is designed to develop students' skills in both hard copy and digital media production. Students will learn basic principles of journalism and develop skills that include writing copy, captions, and headlines; digital photography; graphic design; desktop publishing; business marketing; and using appropriate technology tools and software for media production. Students' grades depend partially on meeting deadlines, attending extra-curricular events outside of class, and selling publication ads. This course will work on two media publications throughout the year; the annual DeSotonian Yearbook and bi-weekly publications on the Varsity News Network.

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, 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.

FAMILY AND CONSUMER SCIENCE

(Practical Arts)

Course Title	Prerequisite	Grade Level	Sem/Year
Foods I	None	9, 10, 11, 12	Semester
International Foods	Foods I (C or above)	9, 10, 11, 12	Semester
Nutrition/Wellness	Foods I (C or above)	10, 11, 12	Semester
Fashion and Apparel	None	9, 10, 11, 12	Semester
Child Development	None	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	Art I (C or above) or FACS (C or above)	11, 12	Semester
Family and Careers	FACS (C or above)	10, 11, 12	Semester

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

COURSE DESCRIPTION: Emphasis in this class will be for students to master food safety procedures and cooking techniques. Students will learn basic cooking skills to be able to live independently after high school. This course will help students gain employability skills by having the students research careers in the culinary field, participate in cooking labs, and learn leadership skills.

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

COURSE DESCRIPTION: Emphasis in this course will be for students to master cooking techniques from different cultures and ethnic groups. This class will teach the students about the influences of culture, society, and environment on food choices. International foods is an extension of Foods I and will help students to continue to learn employability skills by having the students research advanced cooking techniques in the culinary field and learn to cook using these techniques. This course will help students that want to pursue a career in the culinary field.

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 is an advanced clothing class. Emphasis is placed on the study of textiles, clothing selection and care, and clothing construction. Students will be creating a minimum of 3 clothing projects. Sewing projects will be an added cost to the student.

CLASS: CHILD DEVELOPMENT
GRADE LEVEL: 11-12
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.

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: 9-10
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: article reviews, reaction papers, journals and projects which center on the student's personal opinions.

CLASS: HOUSING AND INTERIOR DESIGN
GRADE LEVEL: 11-12
PREREQUISITES: Art I (C or above) or FACS (C or above)
.5 CREDIT
CAREER PATHWAY CODE: BMT, HLS, HUS, IET

COURSE DESCRIPTION: Course instruction focuses on the basic design elements drawing floor plans and selecting appropriate materials for a home's interior. A minimum of three major projects will be completed. The final will be constructing a project utilizing information learned throughout the class.

CLASS: FAMILY AND CAREERS
GRADE LEVEL: 10-12
PREREQUISITES: FACS (C or above)
.5 CREDIT
CAREER PATHWAY CODE: BMT, HLS, HUS, IET

COURSE DESCRIPTION: Emphasis in this course will be for students to expand their knowledge in careers, entrepreneurship, and FCCLA. This course will help students develop leadership skills, strengthen personal characteristics, problem solving techniques, improve communication skills, and utilize team-building strategies. Additional costs may be added for the students.

INDUSTRIAL TECHNOLOGY

(Practical Arts)

Course Title	Prerequisite	Grade Level	Sem/Year
Intro to Industrial Technology	None	9, 10, 11, 12	Semester
Industrial Technology (Building Maintenance and Home Repair)	Intro to Industrial Technology (C or above or Teacher Recommendation)	11, 12	Year

CLASS: INTRO TO INDUSTRIAL TECHNOLOGY
GRADE LEVEL: 9-12
PREREQUISITES: None
.5 CREDIT
CAREER PATHWAY CODE:

COURSE DESCRIPTION: This is an introductory course that will cover a variety of topics including CAD (Computer Aided Drafting), basic power tool use, as well as STEM projects throughout the semester. In the CAD portion of the course it will teach the fundamentals of mechanical drawing and its applications in today's society. Concept areas will cover sketching, measurement, geometric construction and two-dimensional design. Students will then apply their technical drawing skills using the CAD system. Students will learn all of the basic CAD commands necessary to produce accurate and efficient 2D designs. AutoCAD will be the primary design software used throughout the course. Drawings will be produced by students of their own designs as well as assigned exercises. We will also cover basic power tool safety and use.

CLASS: INDUSTRIAL TECHNOLOGY (BUILDING MAINTENANCE AND HOME REPAIR)
GRADE LEVEL: 11 & 12
PREREQUISITES: INTRO TO INDUSTRIAL TECHNOLOGY (C or Above or Teacher Recommendation)
1 CREDIT
CAREER PATHWAY CODE:

COURSE DESCRIPTION: Building Maintenance and Home Repair provides students with the opportunity to experience and explore the many different areas in repair and maintenance that relate to 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. Possible topics include portable power tool safety, electrical wiring, basic wall framing, drywall, flooring and other related topics. This class will also be a part of building the sets for the plays/musicals.

ART

(Fine Arts)

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

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).

CLASS: ART II
GRADE LEVEL: 10-12
PREREQUISITES: Art I (C or above)
1 CREDIT
CAREER PATHWAY CODE: AC

COURSE DESCRIPTION: Art II offers advanced study in various drawing and color media along with in-depth instruction in drawing, composition, and design techniques. An introduction to the study of acrylic painting and sculpture is also included. Art history and different cultures are emphasized throughout the units of study.

CLASS: ART III
GRADE LEVEL: 11-12
PREREQUISITES: Art II (B- or above)
1 CREDIT
CAREER PATHWAY CODE: AC

COURSE DESCRIPTION: Art III is an advanced level class that will enable highly motivated students to prepare for college-level work in studio art. An in-depth study in figure drawing, drawing, perspective, color design, and sculpture will be stressed. Students will examine how art history and different cultures are related to visual arts. The student will be expected to demonstrate creativity, as well as an exploratory use of materials.

CLASS: ART IV
GRADE LEVEL: 12
PREREQUISITES: Art III (B or above)
1 CREDIT
CAREER PATHWAY CODE: AC

COURSE DESCRIPTION: Art IV is a course for those students planning on majoring in an art field in college. It will emphasize an advanced level of drawing perspective, color design, and sculpture. The student will be expected to demonstrate creativity. Students are expected to incorporate art history and culture into the finished product. They will be responsible for a finished portfolio of their artwork by the end of the year.

MUSIC

(Fine Arts)

Course Title	Prerequisite	Grade Level	Sem/Year
Marching Band	Audition	9, 10, 11, 12	1ST Semester
Symphonic Band	Audition	9,10,11,12	2ND 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

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, home football and basketball games, and local/regional marching festivals and concert band festivals. Attendance at all performances is required and part of the class grade as covered in the De Soto Bands Concert Performance Expectations document. This course requires out of school participation.

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 Symphonic Band is based on auditions and director's recommendation. 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 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 Concert Performance Expectations document. **Students in this band must have satisfactorily completed previous band instruction.** This course requires out of school participation.

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 venue. Students enrolled in this course work on developing their musical ability through ensemble performance. Concert Band represents the school at local concerts. Attendance at all performances is required and part of the class grade as covered in the De Soto Bands Concert Performance Expectations document. 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 that are also enrolled in an additional band course. *Freshman students will be accepted only in emergency situations, due to scheduling constraints. Jazz Ensemble provides students with an opportunity 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 or avocations. Jazz Ensemble represents the school at local concerts, several home basketball games, and local/regional jazz festivals. Attendance at all performances is required and part of the class grade as covered in the De Soto Bands Concert Performance Expectations document. This course requires out of school participation.

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

COURSE DESCRIPTION: Jazz Lab provides students with an opportunity to explore innovative styles of instrumental techniques utilized in American Jazz and jazz-driven mediums. This band introduces the base 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 Concert Performance Expectations document.

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.

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: This is a performance class for men. The course offers instruction in performance as well as developing leadership, self-discipline and the ability to work cooperatively. Students will participate in several required concerts throughout the year.

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

COURSE DESCRIPTION: This is a performance class for women. The course offers instruction in performance as well as developing leadership, self-discipline and the ability to work cooperatively. Students will participate in several required concerts throughout the year.

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 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 competition and festivals. Students will participate in several required concerts throughout the year.

DRAMA/THEATRE ARTS

(Fine Arts)

Course Title	Prerequisite	Grade Level	Sem/Year
Theatre Arts	None	9, 10, 11, 12	Year
Actor's Studio I	Theatre Arts (B or above)	10, 11, 12	Year
Actor's Studio II/Directing	Actor's Studio I (B or above)	11, 12	Year

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 theater attendance followed by exercises in written and oral critiques, discussion of the elements of play production and the business of theater. 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: The developing actor will be able 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.

CLASS: ACTOR'S STUDIO II/DIRECTING
GRADE LEVEL: 11 or 12
PREREQUISITES: Actor's Studio I (B or above)
1 CREDIT
CAREER PATHWAY CODE: AC

COURSE DESCRIPTION: This class is a continuation of Actor's Studio I; 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. Monologues will be used as the means to study characterization. Memorization and successful completion of Actor's Studio I is required as well as play attendance. Fourth year students may take the Directing part of the course. This is for the advanced theatre student who is ready to demonstrate proficiency as a director. It 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. Successful completion of Actor's Studio II is required, as well as time commitment after school.

PHYSICAL EDUCATION

Course Title	Prerequisite	Grade Level	Sem/Year
Physical Education	None	9, 10, 11, 12	Semester/Year
Health	None	9, 10, 11, 12	Semester
Strength Training	See Description	9, 10, 11, 12	Semester/Year
Men's Athletic Strength Training	See Description	10, 11, 12	Semester/Year
Women's Athletic Strength Training	See Description	10, 11, 12	Semester/Year

Students may take both PE and Strength Training their **SENIOR year only; however, permission must be granted by the PE department. If a student obtains a D or F at semester, one course will be dropped.

CLASS: PHYSICAL EDUCATION
GRADE LEVEL: 9-12
PREREQUISITES: None
.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: 9-12
PREREQUISITES: Incoming 9th grade students must have taken summer school PE or PE first semester.
.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.

CLASS: MEN'S ATHLETIC STRENGTH TRAINING
GRADE LEVEL: 10-12
PREREQUISITES: 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: 10-12
PREREQUISITES: 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.

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
Histep	None	11, 12	Semester
A+ Tutoring	None	10, 11, 12	Semester/Year
ACT Prep	None	11	Semester
Cadet Teaching	None	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: HISTEP
GRADE LEVEL: 11 or 12
PREREQUISITES: None
.5 CREDIT
CAREER PATHWAY CODE: HUS

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 to various grade classes at area elementary schools. Admission to the class is through written application. Size is limited, and good attendance is required.

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 Ms. 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.**

CLASS: ACT PREP
GRADE LEVEL: 11 or 12
PREREQUISITES: None
.5 CREDIT

COURSE DESCRIPTION: ACT prep is a class for college bound juniors who are interested in raising their ACT score. In this class, students will learn strategies and techniques for each subtest of the ACT. In addition, students will review English, math, and science content on the ACT. **Required for College Prep Diploma UNLESS student scores a 24 composite on the ACT. This course is graded on a Pass/Fail system.**

CLASS: CADET TEACHING
GRADE LEVEL: 12
PREREQUISITES: Application
1 CREDIT

COURSE DESCRIPTION: Cadet teaching is a class for seniors who are working on a college prep diploma and who think they may be interested in becoming teachers. The first semester is spent in class learning about things such as: writing lesson plans, classroom discipline, teaching methods, classroom procedures, and professionalism. The second semester, these students spend five days a week with an elementary or junior high classroom teacher getting some practical teaching experience.

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.

CLASS: AUTOMOTIVE TECHNOLOGY (COLLEGE CREDIT)
ENTRY LEVEL: 12, Morning 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 curricula 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.

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
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 and 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: COMPUTER INTEGRATED MANUFACTURING (COLLEGE CREDIT)
ENTRY LEVEL: 12, Morning Program Only
3 Elective Credits

COURSE DESCRIPTION: In this program students will learn integration in industrial manufacturing which is the key to providing high precision and intricate machined metal parts into the world's growing demand for extremely technical design. With the assistance of computer aided drafting and computer aided manufacturing (CAD/CAM) the gap between manufacturing and engineering tightens. The results of this integration are higher standards of precision and quality along

with programming, set-up, and machine cycle time reduction of CNC machining centers and turning centers. Required supplies: safety glasses and daily school supplies (paper, notebook, etc.) Total approximate cost: TBA.

CLASS: CULINARY ARTS (COLLEGE CREDIT)
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 Skills USA membership dues. Total approximate cost: $100.

CLASS: DIGITAL MEDIA TECHNOLOGY (COLLEGE CREDIT)
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. Total approximate cost: TBA.

CLASS: EARLY CHILDHOOD EDUCATION/ELEMENTARY (COLLEGE CREDIT)
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. Additional laboratory experiences are provided with direct interaction with young children under qualified supervision in the campus Child Care Center or other approved sites within the county. Required supplies: 1 to 3 program shirts and background check. Total approximate cost: $30.

CLASS: FIRE SCIENCE TECHNOLOGY (COLLEGE CREDIT)
ENTRY LEVEL: 12, Morning Program Only
3 Elective Credits

COURSE DESCRIPTION: The Fire Science Technology program introduces students to a career as a full-time or volunteer fire fighter. Students will learn to control and extinguish fires, prevent fires, provide emergency medical services, respond to hazardous materials and disaster, and search and rescue. Students are required to attend mandatory Saturday sessions. Fire Fighter I and II covers fire protection characteristics, fire behavior, chemistry of fire, extinguishing agents, water supply, in-depth fire streams, auto extrication, and fire theory. Students will be eligible to take the Fire Fighter I and II State Certification Exams after successful completion of this course and Hazardous Materials Awareness and Operations. This will certify an Individual to the NFPA 1001-2008 Firefighter Professional Qualifications Standard. State Certification for Fire Fighter I and II is administered through the Missouri Division of Fire Safety at predetermined sites throughout Missouri. Applicants must be 18 years of age and have successfully completed the required course work. If applicants are not 18 years of age or miss the initial scheduled testing they will have one year from the completion of the course to take the test. Required supplies: uniform, boots, notebook, index cards, Nomex hood, black socks, and fire gloves. Total approximate cost: $166-$236.

CLASS: HEALTH SERVICES I/II
ENTRY LEVEL: 11 and 12
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.

CLASS: HEATING, REFRIGERATION, & AIR CONDITIONING TECHNOLOGY (COLLEGE CREDIT)
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.

CLASS: METAL FABRICATION
ENTRY LEVEL: 10-12
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 is comprised 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: RESIDENTIAL CARPENTRY
ENTRY LEVEL: 10 - 12
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. Required supplies: safety glasses, 25 foot tape measure. Total approximate cost: $25.

CLASS: ADVANCED RESIDENTIAL CARPENTRY
ENTRY LEVEL: 11 or 12
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). Total approximate cost: $250.

CLASS: WELDING TECHNOLOGY (COLLEGE CREDIT)
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, soap stone, 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.