



Sturgeon R-V High School

Home of the Bulldogs



2017-2018

Career Planning and Educational Guide



STURGEON R-V HIGH SCHOOL

24350 N. Fairgrounds Rd.

Sturgeon MO 65284

(573)687-3512

District Website:

www.sturgeon.k12.mo.us

School Counseling Website:

<http://sturgeonsc.weebly.com/>

2017-2018

SUPERINTENDENT: Mr. Shawn Schultz

PRINCIPAL: Mrs. Becky Schafer

SCHOOL COUNSELOR: Mr. Matt Boyer

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DEFINITIONS OF TERMS USED



CORE COURSES:

Core courses are any courses that fall under the English Language Arts, Social Studies, Mathematics, and Science areas.

COURSE:

A course is all selections of classes in one subject area. For example, English 1 is a course. There may be several classes or sections of this course offered throughout the day.

CLASS:

A class is all individual sections of a course. For example, 7th hour English 1 may be your class, while your friend may be in 3rd hour English 1.

REQUIRED COURSE:

A required course is a specific course that SHS requires for High School graduation.

ELECTIVE:

An elective is any course that is not specified for graduation.

PRE-REQUISITE:

A pre-requisite indicates what a student has to have completed before being allowed into a specific course. For example, some classes at SHS require a student to have a certain GPA, or be a certain grade level, or to have completed a course the year before.

CREDIT:

A credit represents the numerical amount received for successfully completing a course. For example, if you pass both semesters of US History, you would earn 1.0 credit. If you took a course for one semester and successfully completed it, you would earn .5 credits. SHS requires all students to successfully complete 24 credits to graduate.

Note: Some procedures and policies outlined in this Career and Educational Planning Guide are subject to change based on Board approval and suggestions.

GRADUATION/ADMISSION REQUIREMENTS

Graduation requirements for the Sturgeon R-V School District shall be a minimum of 24 credits, completed during grades nine through twelve. Each student who wishes to graduate from the Sturgeon R-V School district must complete the following required courses.

NOTE: As a reference, admission requirements (*) for the University of Missouri System Schools are included. These may change so please check their websites and/or contact an admissions officer. You can find most college admission requirements by conducting an internet search that includes the schools name with admission requirements (i.e. Missouri State Admissions Requirements)

Department	State & SHS Graduation Requirements	*2017 Admission Requirements for the University of Missouri Schools (UMC, UMR, UMKC, UMSL)
English Language Arts (ELA)	4 Credits	4 Credits
Social Studies (SS)	3 Credits	3 Credits
Math (MA)	3 Credits	4 Credits <i>(Algebra I and beyond)</i>
Science (SC)	3 Credits	3 Credits <i>(1 must be a Lab Course)</i>
Health	.5 Credit	None
Physical Education (PE)	1 Credit	None
Fine Arts (FA)	1 Credit - Art - Choir - Band	1 Credit
Practical Arts (PA)	1 Credit - Agriculture - Business Tech - MATC	None
Personal Finance	.5 Credit	None
Electives (EL)	7 Credits	
Foreign Language	None	2 Credits <i>(Must be same language)</i>
Total	24 Credits	17 Credits * Plus appropriate Class Rank and ACT/SAT Scores

- Your Practical Art graduation requirement can be earned by:
 - Attending the local area Career Center at Moberly (MATC)
 - Taking a minimum of 1 Agriculture class at SHS
 - Taking Business Technology during your senior year (only for those students who did not take a MATC or Agriculture class)

SOPHOMORE, JUNIOR, OR SENIOR STATUS



To qualify for **sophomore** status, a student is expected to have earned a minimum of **5.5 credits** prior to the beginning of the school year.

To qualify for **junior** status, a student is expected to have earned a minimum of **11.5 credits** prior to the beginning of the school year.

To qualify for **senior** status, a student is expected to have earned a minimum of **17 credits** prior to the beginning of the school year. A student with less than 17 credits will be assigned junior status and may not graduate with that year's class.



ACADEMIC ASSISTANCE



All students are eligible to receive academic assistance (tutoring) at Sturgeon High School. Students may arrange times to meet with their teacher before or after school. Every student is also scheduled into a seminar class which is held at the end of each school day. Students may request to visit a teacher to get assistance with their work. Teachers may also request students come to their seminar in order to get assistance. If you have concerns with your students learning please contact their teacher to make tutoring arrangements.

SHS GRADING SCALE



Sturgeon High School uses a 4.0 grading scale to calculate grade point averages (GPA). Student class ranks are calculated by cumulative GPA after each semester.

Letter Grade	% Grade	4.0 Scale
A	95 – 100	4.0
A-	90 – 94	3.67
B+	87 – 89	3.33
B	83 – 86	3.0
B-	80 – 82	2.67
C+	77 – 79	2.33
C	73 – 76	2.0
C-	70 – 72	1.67
D+	67 – 69	1.33
D	63 – 66	1.0
D-	60 – 62	0.67
F	0 – 59	0.0



MOBERLY AREA TECHNICAL CENTER (MATC) PROGRAMS AND REQUIREMENTS

Students may choose to enroll in courses at Moberly Area Technical Center during their junior and senior year of high school. Students may earn three practical art credits each year. Students may also complete embedded Math and English Language Arts credit while attending MATC.

MATC programs are designed to provide the student entry-level job skills and give the student a head start at the post-secondary level in a particular program of study. Most of the programs are two years in length and meet three periods a day. Some programs do allow students to combine courses from different program areas.

2017-2018 MATC PROGRAMS

Architectural & Engineering Design	Automotive Technology
Building Technology	Business & Technology
Collision Repair Technology	Computer Information Technology
Electronics & Robotics Technology	Machine Tool Technology
Marketing	Medical Technology
Welding Technology	

Since most programs offered at MATC are two-year programs, there is an application process and eligibility requirements that must be met by students wishing to attend.

The first requirement is a commitment to complete the program you enter. This generally means planning on attending the Career Center during your junior and senior year.

Application Process:

1. Students must meet with their guidance counselor to express their interest in attending MATC and know what program they would like to commit to.
2. Students must complete the MATC enrollment application and submit it to the school counselor prior to the due date (set each year by MATC).
3. It is important to note that an accepted application by MATC does not mean you have been accepted to the program you have selected. Some programs will have over-enrollment and will require additional testing to determine placement. Your previous year's attendance percentage may also be used to determine enrollment.

Eligibility Requirements:

1. Students must be a Junior or Senior in high school.
2. All students wanting to attend MATC must have either:
 - a. A 1.66 GPA (C-) with 92% attendance or better.
 - b. A 2.00 GPA (C) with 90% attendance or better.
3. All students wanting to attend MATC cannot have any F's from the previous semester.
4. All students wanting to attend the MATC must be on track to graduate.



ADVANCED COLLEGE STANDING

Sturgeon High school offers both in-house and online Dual Credit opportunities for students to earn advanced standing and/or college credit. Additional information is available from your school counselor regarding Dual Credit:

Dual Credit In-House:

Students may earn both high school and college credit for some courses taken at SHS. College credits are offered through Moberly Area Community College (MACC). Students may earn .5 or 1.0 high school credits (depending upon the class) and 3-5 hours of college credit per class (depending on the class). Students may take a course that is offered for dual credit, but elect not to participate in the dual credit program and receive only high school credit.

In order to receive college credit students must:

- Have fulfilled course prerequisites.
- Meet admission standards for MACC.
- Have a minimum 3.0 GPA.
- Obtain permission from the teacher.
- There may also be an EOC score or college-board admissions test score requirements for some courses.

17-18 cost for dual credit classes are as follows:

Moberly Area Community College

\$75 per credit hour

\$225 for a 3-hour class

Please plan for book and online material costs as well

- Fees are set by the universities and are subject to change.
- Fees are due in full at the time of dual credit enrollment, which is approximately two weeks after the start of the semester. If you have special financial considerations please let your school counselor know.

Possible Dual Credit In-House course offerings may include: College Chemistry, College Composition I and II, Art Appreciation, and Introduction to Business and Principles of Business Management.

Dual Credit On-Line (DCON):

Dual Credit On-Line courses at Sturgeon High School are offered through Moberly Area Community College (MACC). Each Dual Credit On-Line course is worth .5 high school credit and between 3-5 hours of college credit (depending on the course). Dual Credit On-Line courses are semester only courses. When signing up for these classes please be sure to include another semester course to go with it.

In order to receive college credit students must:

- Have fulfilled course prerequisites.
- Meet admission standards for MACC.
- Have a minimum 3.0 GPA.
- There may also be an EOC score or college-board admissions test score requirements for some courses.
 - Students wanting to take College Algebra must have a minimum ACT Math score of 22 or take the Accuplacer Test to achieve a qualifying score.
 - Students wanting to take College Composition must have a minimum ACT English and Reading score of 18 or take the Accuplacer Test to achieve a qualifying score.

17-18 cost for dual credit classes are as follows:

Moberly Area Community College

\$75 per credit hour

\$225 for a 3-hour class

Please plan for book and online material costs as well

- Fees are set by the universities and are subject to change.
- Fees are due in full at the time of dual credit enrollment, which is approximately two weeks after the start of the semester. If you have special financial considerations please let your school counselor know.
- Courses offered will change each semester.

Possible Dual Credit On-Line course offerings may include: College Algebra, College History, Public Speaking, Psychology, Sociology, and others.



COURSE SCHEDULING INFORMATION



Student currently enrolled in grades 8-11 at Sturgeon R-V Schools will complete Course Request forms for the following school year during the second semester of the current school year.

Students must choose a total of 7 classes for the school day. Most classes will be filled with preference given to seniors, juniors, sophomores, and then freshmen. Some specialty and advanced courses require teacher permission.

Freshmen students will be evaluated for course placement (mathematics, and foreign language) through grades, testing and teacher recommendation. All students will be continuously evaluated for appropriate course placement. If placement is determined by a teacher or counselor to be inappropriate, course changes may be made at that time.

Private, Parochial, and Home Schooled Students:

All students coming to SHS from outside schools or from home school will need to contact the School Counseling Office to set up a time for the student to visit and fill out a Course Request form.

NOTE: It is the parent/guardians responsibility to arrange for their child to be enrolled at SHS.

1st Semester Schedule Changes:

Students need to be aware of the following guidelines regarding adding or dropping classes:

- Notifications will be sent informing students of dates and times they may come to SHS and request schedule changes before school starts (registration). We strongly recommend making all schedule changes during this time!
- All students will attend their scheduled classes the first day of school.
 - This means **NO FIRST DAY OF SCHOOL SCHEDULE CHANGES.**
- After the first day, students who wish to change their schedule will have 3 days to sign up and complete their DROP/ADD slips and have their schedules changed.
- Changes to off campus college program courses must be approved by counselor and principal.
- **No courses can be dropped after the three days unless recommended by a teacher and/or approved by the counselor and principal. If a course is dropped after the ADD/DROP period has ended the course will be recorded on the students' transcript and an "F" will be shown for the semester grade.**
- Students interested in changing their schedules need to complete the following steps:
 - Students will need to complete a DROP/ADD slip and have it signed by a parent/guardian.
 - The DROP/ADD slip will need to be signed by the teachers of the courses you are dropping and adding.
 - Students will need to turn in their COMPLETED DROP/ADD slip to the Guidance Office.
 - Students will follow their old schedule until they meet with their counselor and or a new schedule is given to them.
- We will not change any schedules because you don't like the teacher, want to be with friends, etc. Due to class sizes and limited course offerings, changes will be very difficult to make and you are not guaranteed any changes.

NOTE: Schedules may be changed due to extenuating circumstances at any point throughout the school year. These types of changes require the support of the Guidance Department and Administrative approval.

2nd Semester Schedule Changes:

Students need to be aware of the following guidelines regarding adding or dropping classes:

- Notifications will be sent informing students of dates and times to request 2nd semester schedule changes. This is usually a week or two before the semester ends.
- Students interested in changing their schedules need to complete the following steps:
 - Students will need to complete a DROP/ADD slip and have it signed by a parent/guardian.
 - The DROP/ADD slip will need to be signed by the teachers of the courses you are dropping and adding.
 - Students will need to turn in their COMPLETED DROP/ADD slip to the Guidance Office.
 - Students will follow their old schedule until it changes 2nd semester.
- Changes to off campus college program courses must be approved by counselor and principal.
- **No courses can be dropped once 2nd semester has started unless recommended by a teacher and/or approved by the counselor and principal. If a course is dropped after the ADD/DROP period has ended the course will be recorded on the students' transcript and an "F" will be shown for the semester grade.**
- We will not change any schedules because you don't like the teacher, want to be with friends, etc. Due to class sizes and limited course offerings, changes will be very difficult to make and you are not guaranteed any changes.

NOTE: Schedules may be changed due to extenuating circumstances at any point throughout the school year. These types of changes require the support of the Guidance Department and Administrative approval.



STUDENT TESTING

PSAT TEST: The Preliminary Scholastic Aptitude Test is offered in October to students in their junior year. There is a charge associated with this test. Students wishing to take this test should visit with their school counselor to get signed up and to find out the amount owed. The PSAT is also a test that will help you prepare for the SAT test. The PSAT will consist of the following sections: Reading, Writing & Language, and Math. Juniors interested in the National Merit Scholarship competition must take the PSAT in order to be considered. For more information about the new PSAT and new SAT please visit www.collegeboard.org.

Pre-ACT: The Pre-American College Test (ACT) is a practice ACT test generally given to sophomores. The Pre-ACT encompasses paper-based, multiple-choice tests in English, math, reading, and science. The Pre-ACT gives students an estimated ACT test score and can be used as an indicator of college and career readiness. For more information about the Pre-ACT please visit <http://www.act.org/content/act/en/products-and-services/preact.html>.

ASVAB: The Armed Services Vocational Aptitude Battery test is given to both juniors and seniors. This test is scheduled to rotate every other year at SHS. This test contains the following sections: General Science, Arithmetic Reasoning, Word Knowledge, Paragraph Comprehension, Mathematics Knowledge, Electronics Knowledge, Auto and Shop Information, Mechanical Comprehension, and Assembling Objects. This test is used at the high school level as an aptitude of skills and presented to the students so they know what their areas of strength are. For more information about the ASVAB please visit www.official-asvab.com.

END-OF-COURSE EXAMS (EOC): The EOC exams are sanctioned by the state of Missouri to evaluate each individual student's performance and to evaluate curriculum and instruction. The results will be part of Sturgeon R-V School District's accountability, and the EOC's will count towards the student's final grade in the respective courses. Sturgeon High School will have EOC's in the four required courses along with several optional courses as well. Courses which have a required EOC are Algebra I, American Government, English 2, and Biology. SHS has also given EOC's in Geometry and Algebra II.

- Students who fail a course in which an EOC exam is given but score proficient or higher on their EOC exam will receive a D- for that course.
- Students on Homebound Services or long-term suspension may be contacted in order to set up a time for the student to come to SHS and take the state exam.

AMERICAN COLLEGE TEST (ACT): The ACT is a national college admissions examination that consists of four subject area tests: English, Mathematics, Reading and Science. Many colleges and universities use the ACT as part of their admission process. Many scholarship programs also use the ACT when selecting their award recipient. The assessment is administered nationally six Saturdays a year during the months of September, October, December, February, April and June at various test centers. The state of Missouri now requires that all juniors be ACT tested in the spring of each year.

To best prepare for the assessment, students should complete rigorous academic coursework throughout high school. For more information on the ACT, visit www.act.org or contact the school counselor.

2017-18 ACT Testing Dates

September 9, 2017
October 28, 2017
December 9, 2017
February 10, 2018
April 14, 2018
June 9, 2018
July 14, 2018 - NEW

ACT Costs:

- Regular Deadline (no writing) – \$42.50
- With Writing – \$58.50
- Late Registration – add \$25.00 (non-refundable)
- These costs are based on the 16-17 year and are subject to change, check the ACT website above to get up to date costs.

NOTE: Juniors and seniors who qualify for free and reduced lunch can obtain two fee waivers for the ACT. See your school counselor for more information.



EARLY GRADUATION



Early Graduation:

Consistent with the intent of the Missouri State Department of Elementary and Secondary Education regulations pertaining to graduation requirements, a student shall be expected to complete four full years of high school. Any student seeking a waiver of the four-year, full-time attendance policy must:

- Complete the SHS Application for Early Graduation and the Sturgeon R-V School District Early Graduation Waiver (*found in the School Counselor Office*).
- Submit a written (typed) request specifying the reasons for early graduation to the high school principal.
- Meet with your counselor and complete a credit check to make sure you will meet graduation requirements.
- Have parent, counselor, and administrator approval.

A student approved for early graduation shall be considered graduates on the date the student terminates their enrollment (typically the end of the first semester of their senior year), but will not receive their diploma until May. Early graduates meeting graduation requirements in January may participate in the graduation ceremony at the end of the school year but will be considered alumni for all other activities.



HONORS AND AWARDS



Valedictorian and Salutatorian Guidelines:

The following guidelines will be used to determine the valedictorian and salutatorian of each graduating class:

- Students must be enrolled as a student at Sturgeon High School for three consecutive semesters prior to the student's graduation in order to be eligible for valedictorian and salutatorian honors.
- GPA will be calculated through four decimal places.
- Ties will be designated co-valedictorians.
- A salutatorian will still be named for the school year in which a tie for valedictorians occurs.



A+ PROGRAM

Sturgeon High School is a designated A+ School. If state funds are available, A+ certified students will receive reimbursement for the cost of tuition and general fees while attending a Missouri public community college or career/technical school on a full-time basis for two years. This financial reimbursement will be for the unpaid balance after federal post-secondary financial assistance funds (that do not require repayment) have been applied. This is also on the condition that the student meets ALL of the requirements below:

1. Be a US Citizen
2. Attend a designated A+ high school for three (3) consecutive years prior to high school graduation (Must apply no later than Nov. 1 of your senior year. Must be enrolled in an A+ school by Sept. 15 of your sophomore year)
3. Graduate from high school with a cumulative grade point average of 2.5 or higher on a 4.0 scale (grades 9-12)
4. Have at least a cumulative 95% attendance record (grades 9-12)
5. Perform and document fifty (50) hours of unpaid tutoring or mentoring coordinated by the Sturgeon HS A+ Coordinator (up to 12.5 hours can include job shadowing experiences)
6. Maintain a record of good citizenship and avoid the unlawful use of drugs and alcohol (not be suspended from school more than once and no Safe School Act Violations, grades 9-12)
7. Earn a score of Proficient or higher on the Algebra I End of Course Assessment (or by alternate assessment determined by the State)

The A+ Schools Program's student financial incentive will be available for up to two (2) years of attendance during a four-year period after graduation from high school. To access the funds, participants must:

- Submit a Free Application for Financial Student Aid (FAFSA) form during their senior year
- Have registered for the Selective Service (male U.S. citizen age 18 or older)

To maintain eligibility, participants must:

- Attend a Missouri A+ participating public community college or career/technical school on a full-time basis, and
- Maintain a grade point average of 2.5 or higher on a 4.0 scale.

The A+ program may provide these educational incentives 1) provided state funds are appropriated by the legislature or 2) subject to state funding approval.

For more information about the A+ Scholarship Program please visit

<http://dhe.mo.gov/ppc/grants/aplusscholarship.php> or contact Mr. Boyer at 573.687.3512.



POST-SECONDARY OPTIONS

Regardless of which career path or career cluster a student chooses, there are many educational opportunities available after high school graduation. Many career opportunities require some formal training beyond high school. Such training opportunities, in no particular rank or order, could include:

1. Military
2. Vocational/Technical School
3. Apprenticeship
4. On-the-Job Training
5. Community College
6. Four-year colleges and universities

Post-Secondary Education:

Students planning to attend a post-secondary college or university, or other training program, need to be aware that these institutions will most likely have admission standards. Students planning on attending a 4-year college or university, either in Missouri or out of state, will normally be expected to complete course requirements that exceed high school graduation requirements. **Students must check with the post-secondary institution of their choice for specific admissions requirements.**

Most SHS students have been introduced to the Missouri College and Career Planning website and have registered and created their own portfolio. This site will enable students to find specific requirements for most post-secondary educational institutions. Students can visit this site, www.missouriconnections.org, and use the links provided to explore their options.



TYPES OF FINANCIAL ASSISTANCE



Scholarships:

Scholarships are non-repayable awards based on merit or merit plus need. There are many types of post-secondary grants and scholarships available to students. In addition, many colleges and universities offer their own scholarships based on high school achievement. Other scholarships may be available based on competitive examinations. The National Merit is an example of a competitive scholarship. Other scholarships may be granted to students who possess special skills such as athletic or musical ability. Students should meet with their school counselor to discuss scholarship information. Students should also check the Sturgeon School Counseling website at <http://sturgeonsc.weebly.com/paying-for-college.html> for scholarship information, listening to the daily announcements, and checking school specific financial aid/scholarship webpages.

NOTE: Keep in mind that scholarships have due dates so please check those and make sure your applications are turned in on time!

Grants:

Grants are non-repayable awards based on need.

Loans (Financial Aid):

Educational loans are available through private lending institutions, colleges, and the federal government. Educational loans must be repaid. Most educational loans have low interest rates with payments deferred while the student is enrolled in a post-secondary institution. Loan programs are also available to parents to help with college expenses for their qualifying children.

- To apply for Federal Financial Aid Loans and for schools to determine the amount of aid they can provide, students and parents must complete the Free Application for Federal Student Aid (FAFSA).
 - You can visit www.fafsa.ed.gov to fill out the FAFSA online.
- Students and parents can contact local lending and post-secondary institutions regarding Financial Aid Loans.
- Students and parents can visit the MOHELA website at www.mohela.com for more Financial Aid Loan information.
- For parents interested in beginning to save for their child's post-secondary education before they get to high school, you can visit the Missouri Saving For Tuition Program at www.missourimost.org. You can also contact them via phone at 1-888-414-6678.

For more information concerning Financial Assistance please contact the school you are interested in attending



STUDENT ACTIVITIES

Students at SHS are strongly encouraged to be involved in one or more activities. Involvement in extra-curricular activities allows students to expand their talents, skills, and to establish lifelong friendships. SHS has a variety of clubs, organizations, performance opportunities, and teams so everyone can be involved!

All athletic and extra-curricular activities will require student drug-testing as mandated by the SHS School Board

Clubs and Organizations:

Art Club, Cheerleading, Pep Squad, Drama Club, FBLA (*Future Business Leaders of America*), FFA, FFA Trapshooting, FTA (*Future Teachers of America*), National Honor Society, National Art Honor Society, Scholar Bowl (MSHSAA), Science Club, Student Council, Writing Group

Band, Drama, and Music:

Instrumental and vocal competitions and concerts, Tri M Music Honor Society

Interscholastic Sport by Season:

Season	Sport
Fall	Girls Softball, Boys Baseball, Girls Golf
Winter	Girls & Boys Basketball, Cheerleading
Spring	Boys Baseball, Boys & Girls Track, Boys Golf



NCAA INFORMATION



High school student-athletes who are considering playing at the NCAA Division I or II level need to register with the NCAA Clearinghouse at the beginning of their junior year in high school.

Student-athletes must meet the core-course requirements as outlined on the Clearinghouse website.

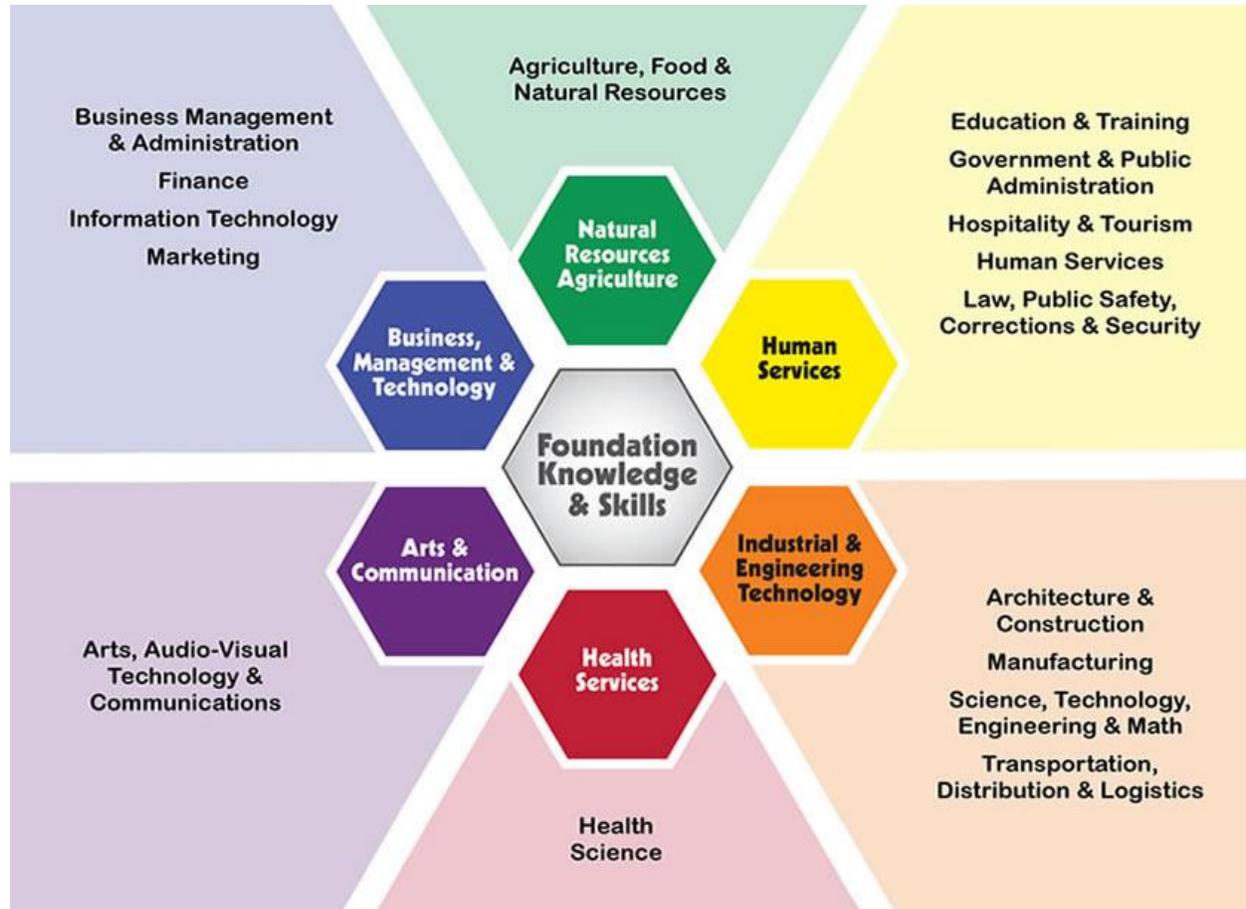
- There are also "Quick Reference Sheets" explaining these core-course requirements located below or in the School Counseling Office.
 - http://www.ncaa.org/sites/default/files/2017_DI_Requirements_Fact_Sheet_20170103.pdf
 - http://www.ncaa.org/sites/default/files/2017_DII_Requirements_Fact_Sheet_20170103.pdf

To register with the Clearinghouse or to find more information students should visit:

- <https://web3.ncaa.org/ecwr3/>
- Students can also call the NCAA Clearinghouse at 1.877.262.1492

CAREER INFORMATION

This diagram is a visual map of the "Career Clusters" model developed to help students, parents, employers, and those in the educational system understand how curriculum relates to the career opportunities from which students will choose, and for which schools must prepare them. Each student at SHS has access to this visual map through Missouri Connections. We recommend that both students and parents access Missouri Connections to start researching potential occupations, schools that offer training for that occupation, as well as assessments to help students determine which career path and cluster their interests best match up with.



RECOMMENDED COURSES

The courses below represent recommended courses for high school graduation. As you become more familiar with what occupation you are interested in you will take courses that will help you prepare for that occupation and entrance to any post-secondary institutions you may apply to.

FRESHMEN	SOPHOMORES	JUNIORS	SENIORS
English I	English II	English III	4 th Required English Course
Algebra I Part I, Algebra I or Geometry	Algebra I Part II, Geometry or Algebra II	Geometry or Algebra II	Business Tech. or Ag Class for students not attending MATC
Government and the Economy	World History	American History	Dual Credit
Physical Science	Biology	3 rd Required Science Course	
P.E.	Personal Finance/Health	May attend MATC	May attend MATC
Seminar	Seminar	Seminar	Seminar
2 Elective Credits: Ag Science, Art, Band, Choir, Foreign Lang.	2 Elective Credits	Choose from core requirements or elective courses	Choose from core requirements or elective courses

Classes may not follow this exact path. Students and the school counselor will work together to create the path that best meets the students' needs

2017-2018 STURGEON HIGH SCHOOL COURSE OFFERINGS

COURSE DESCRIPTIONS

Courses marked with an * are courses offered for possible college credit
All courses will have a final exam at the end of 1st semester and a final exam at the end of 2nd semester. The 2nd semester final exam may be comprehensive (teacher's discretion). Each final exam or EOC may be worth up to 10% of the final semester grade.

AGRICULTURE SCIENCES DEPARTMENT

All students enrolled in an agriculture class will be expected to create and maintain a Supervised Agriculture Experience. The SAE is a project the student develops by producing an agriculture product or working in an Ag related industry. The SAE is required all years a student is enrolled in agriculture classes. The instructor will discuss with students what programs will be approved as an SAE. Students fulfilling the completion requirements will be required to participate in assessments implemented by the Missouri Department of Secondary Education.

COURSE: CASE: Intro to Ag, Food & Natural Resources
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 9-12
PREREQUISITE: None

COURSE DESCRIPTION: This beginning course in the CASE sequence of courses introduces students to the four pathways that are offered through CASE. The course provides a brief overview of animal science, plant science, natural resources, and agricultural technology and systems. In addition, students will explore FFA, leadership, Supervised Agricultural Experience, science applications, and career and post-secondary opportunities. (CD 016800, CIP 01.9999)

** This is the recommended course for any 9th grade student interested in Agricultural classes.*

**This course is the prerequisite for all future Agricultural classes.*

COURSE: CASE: Ag Structures
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 10-12
PREREQUISITE: CASE: Intro to AFNR

COURSE DESCRIPTION: A course designed for instruction in plant and crop science, soils, entomology, horticulture, and forestry, and additional instruction in agricultural mechanics, career development, leadership, and supervised agricultural experience. (CD 016760, CIP 01.0000)

COURSE: CASE: Principals of Ag Science – Plant
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 11-12
PREREQUISITE: CASE: Intro to AFNR

COURSE DESCRIPTION: This foundations course is designed to be the second course in the CASE sequence for the Plant Systems pathway. It provides activities, projects, and problems based on the role of plants in society, soil properties, soil chemistry, soilless growing systems, plant anatomy and physiology, taxonomy, growth requirements, reproduction, crop production and marketing, and plant health. In addition, students will continue to develop leadership potential through the FFA, establish a Supervised Agricultural Experience Program, and explore career opportunities. (CD016802, CIP 01.9999)

COURSE: CASE: Advanced Animal Science
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 11-12
PREREQUISITE: CASE: Intro to AFNR

COURSE DESCRIPTION: Advanced study in animal production, management, marketing, nutrition, breeding, production records, selection, animal health, waste management, and biotechnology will be included in this course. Additionally, a Veterinary Science component of this course will include instruction about both food and companion animals. Topics include cell and tissue biology, anatomy, physiology, nutrition, disease prevention and diagnosis, and surgical procedures. (CD 016711, CD 016745, CIP 01.0901)

ART DEPARTMENT

COURSE: Art I
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 9-12
PREREQUISITE: None

COURSE DESCRIPTION: This beginning art class teaches the elements of art and the principals of design. This course is designed as a beginning art class for students wishing to pursue upper level art courses as well as for those who wish to satisfy their Fine Arts requirements for high school graduation. Students will explore basic art media and techniques, such as drawing, painting, collage, ceramics, printmaking, and sculpture and more! Art criticism, aesthetics, and art history are an integral part of the class. Grades are earned both by the ability and effort of the student. *This course was formerly called Art Foundations.*

**This course is the prerequisite for most Art related courses*

COURSE: Art II
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 10-12
PREREQUISITE: B or better in Art I

COURSE DESCRIPTION: This course is for all students who want to pursue an interest or future career in visual arts. Students will create original artwork in realistic, abstract, and nonobjective styles. Inspired by observation and imagination, they will express themselves through the themes of still life, landscape, and portrait. They will learn about and use drawing, painting, sculpture, and mixed media techniques to create two- and three-dimensional artworks. Students will analyze and critique artworks, discuss aesthetic issues, and understand how art is related to history and culture. *This class was formerly called Drawing and Painting.*

COURSE: Art III & IV
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 11-12
PREREQUISITE: C or better in Art II

COURSE DESCRIPTION: Students will develop technical skills in the use of drawing and printmaking media. They will create original two-dimensional artworks based upon the themes of observation, expressive figure/portrait, architecture, landscape, still life, and personal communication of an idea. Students will learn and use watercolor and acrylic paint techniques to create original two-dimensional artworks. They will express themselves through the themes of observation, still life, figure, portrait, landscape, and a student-selected conceptual theme. They will create original, three-dimensional artworks using modeling, carving, assemblage, and casting methods. Students will develop and use ceramic hand-building methods and decorative surface techniques. They will create original functional and non-functional pieces. Work will be inspired by the historical study of the Renaissance, Impressionism, Post Impressionism, and Cubism. Students will analyze and critique artworks, discuss aesthetic issues, and understand how art is related to history and culture.

COURSE: Arts & Crafts
COURSE LENGTH: 1st Semester

CREDIT: .5 GRADE LEVEL: 10-12

PREREQUISITE: B or better in Art I or instructor approval

COURSE DESCRIPTION: Arts and Crafts provide a crafts focus for students who want an alternative to traditional drawing and painting. Students will use techniques of fiber arts, sculpture, and ceramic to create original two- and three-dimensional artworks. They will be inspired by the artwork from European, African, Pre-Columbian, and Asian cultures. Students will analyze and critique artworks, discuss aesthetic issues, and understand how art is related to history and culture. *This course is usually paired with Photography 2nd semester.*

COURSE: Photography
COURSE LENGTH: 2nd Semester

CREDIT: .5 GRADE LEVEL: 10-12

PREREQUISITE: B or better in Art I or instructor approval

COURSE DESCRIPTION: Students will explore the world digital photography. They will learn to edit their photographic prints. Students will create original photographs, expressing themselves through the following themes: pattern/reflection/shadow, portrait, motion, and environment. They will analyze and critique photographs, discuss aesthetic issues, understand the historical development of photography, and relate a photographer's work to the society in which it was created. *This course is usually paired with Arts & Crafts 1st semester.*

COURSE: DC Art Appreciation 101*
COURSE LENGTH: 1st Semester

CREDIT: .5 GRADE LEVEL: 11-12
PREREQUISITE: 3.0 GPA or better

COURSE DESCRIPTION: Advanced Placement Art Appreciation enables highly motivated students to study college level art history. Students will gain an understanding of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts. Students examine major forms of artistic expression from pre-history to the present. They will describe, critically analyze, and interpret artworks, trace artistic influences and evaluate art from various aesthetic perspectives. This study of art history enriches student knowledge in the fields of both art and history. No prior experience in art history is needed, but the course requires a strong commitment to academic work. The grade for this course is weighted. *This course is usually paired with DC Art Appreciation 102 2nd semester.*

COURSE: DC Art Appreciation 102*
COURSE LENGTH: 2nd Semester

CREDIT: .5 GRADE LEVEL: 11-12
PREREQUISITE: 3.0 GPA or better

COURSE DESCRIPTION: Advanced Placement Art Appreciation enables highly motivated students to study college level art history. Students will gain an understanding of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts. Students examine major forms of artistic expression from pre-history to the present. They will describe, critically analyze, and interpret artworks, trace artistic influences and evaluate art from various aesthetic perspectives. This study of art history enriches student knowledge in the fields of both art

and history. No prior experience in art history is needed, but the course requires a strong commitment to academic work. The grade for this course is weighted. *This course is usually paired with DC Art Appreciation 101 1st semester.*

BUSINESS EDUCATION DEPARTMENT

COURSE: Computer Applications
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 9-12
PREREQUISITE: None

COURSE DESCRIPTION: Computer Applications is designed to help student's master beginning and advanced skills in the areas of word processing, database management, spreadsheet applications, desktop publishing, multimedia, Internet usage, and integrated software applications. Emphasis is on daily use of a computer to develop skills and apply these skills to the production of business correspondence. Learning is continued in the areas of proofreading and skill building in speed and accuracy. The course is also designed to provide students with a strong understanding of Microsoft Office (Word, PowerPoint, Excel, Access and Publisher).

COURSE: Mass Media
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 11-12
PREREQUISITE: None

COURSE DESCRIPTION: This course is commonly referred to as Yearbook. Students of all grade levels work throughout the school year to create a well-planned book to display the hard work, achievements, and activities of Sturgeon students. Students enrolled in this class learn firsthand time management skill, marketing, sales, and team work.

COURSE: Personal Finance
COURSE LENGTH: Semester

CREDIT: .5 GRADE LEVEL: 10-12
PREREQUISITE: None

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

COURSE: DC Introduction to Business*
COURSE LENGTH: 1st Semester

CREDIT: .5 GRADE LEVEL: 11-12
PREREQUISITE: 3.0 GPA or higher

COURSE DESCRIPTION: This Dual Credit course is designed to provide students with general knowledge of the business world. Topics include economics, management, marketing, and human resource management. *This course is usually paired with Principals of Business Management 2nd semester.*

COURSE: DC Principals of Business Management*
COURSE LENGTH: 2nd Semester

CREDIT: .5 GRADE LEVEL: 11-12

PREREQUISITE: 3.0 GPA or higher and completion of Introduction to Business

COURSE DESCRIPTION: This is a Dual Credit course in management with emphasis on the application of sound managerial practices and techniques in the field of management. The functions of management, planning, organizing, leading, and controlling are studied as the framework for this course. *This course is usually paired with Introduction to Business 1st semester.*

COURSE: Business Technology
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 12
PREREQUISITE: None

COURSE DESCRIPTION: This course is offered to seniors; students gain an understanding of business foundations along with career prep and entrepreneurial awareness. Students enhance computer application skills as they develop competencies needed by administrative support professionals. The content includes the use of technology to develop communication skills, the performance of office procedures tasks, the production of quality work using advanced features of business software applications, and the production of high quality employment portfolios and job-seeking documents (including a resume). In addition, this course provides training or skills many employers find deficient: dealing with other people, using the telephone, organizing work, and handling other crucial tasks.

ENGLISH LANGUAGE ARTS DEPARTMENT

COURSE: English 1
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 9
PREREQUISITE: None

COURSE DESCRIPTION: English 1 is a required first-year course in the English Language Arts program. The purpose of the course is to provide students with a solid foundation in writing Standard English, Civil Literacy, grammar, research, speaking and listening skills, as well as reading and evaluating basic forms of literature.

COURSE: English 2
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 10
PREREQUISITE: English 1

COURSE DESCRIPTION: English 2 focuses on writing, World Literature, grammar, research, and speaking and listening skills. Writing instruction emphasizes vocabulary, accepted patterns of organization, development and support of ideas, and acceptable usage and mechanics. In addition, students will read and study major writings in World Literature. *Students taking this course will be required to take the English 2 End-of-Course (EOC) Exam at the completion of the second semester.*

COURSE: English 3
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 11
PREREQUISITE: English 2

COURSE DESCRIPTION: English 3 focuses on the analysis and interpretation of American literature and its historical significance. The writing element of the course includes a wide range of skills from responding to literature; researching a topic and applying a mode of reference; to successfully applying grammar, usage, and mechanics correctly to written work.

COURSE: English 4/DC Comp 101 & Comp 102*
COURSE LENGTH: Year
PREREQUISITE: English 3, 3.0+ GPA, 18+ on ACT Reading and English

CREDIT: 1 GRADE LEVEL: 12

COURSE DESCRIPTION: Composition LAL101 (1st semester) teaches the process of writing, from prewriting to revision. Focus is on reading and critical thinking, essay writing, and literary analysis. Course provides practice in computer-assisted writing and oral communication. In Composition LAL102 (2nd semester) students are introduced to research writing through originality, organization, and persuasion. Focus is on critical thinking when conducting research, considering sources, and synthesizing information.

COURSE: Science Fiction
COURSE LENGTH: 1st Semester

CREDIT: .5 GRADE LEVEL: 10-12
PREREQUISITE: None

COURSE DESCRIPTION: Science Fiction focuses on the study of the major divisions of the genre through reading examples from major authors in the field. Students analyze the stories for their adherence to scientific principles, representation of society, thematic material, and creativity. Students will also discuss the genre through film. *This course is usually paired with Shakespeare 2nd semester.*

COURSE: Shakespeare
COURSE LENGTH: 2nd Semester

CREDIT: .5 GRADE LEVEL: 10-12
PREREQUISITE: None

COURSE DESCRIPTION: The study of Shakespeare is designed to acquaint students with several of the most popular works of the playwright. Students will develop an understanding and appreciation for the works of Shakespeare through close reading, scene performance, discussion, and class projects. Students will view several films of the plays and compare the interpretations to the written works. *This course is usually paired with Science Fiction 1st semester.*

COURSE: Greek Mythology
COURSE LENGTH: 1st Semester

CREDIT: .5 GRADE LEVEL: 10-12
PREREQUISITE: None

COURSE DESCRIPTION: Greek Mythology focuses on the major Greek gods and goddesses, the heroes, the great quests, and the creation stories that have become part of the fabric of our cultural literacy and heritage. Students will study and analyze the myths, identify the presence of the influence of Greek myth in our society, in our literature, and in the media. *This course is usually paired with World Mythology 2nd semester.*

COURSE: World Mythology
COURSE LENGTH: 2nd Semester

CREDIT: .5 GRADE LEVEL: 10-12
PREREQUISITE: None

COURSE DESCRIPTION: World Mythology focuses on the major gods and goddesses, the heroes, the great quests, and the creation stories from Mesopotamia, Egypt, Scandinavia, Ireland, China, and America that have interested humans for thousands of years. Students will study and analyze the myths, identify the major characters, identify the art and objects of the time periods, and connect the various mythologies through the recurrent themes found in the creation/destruction stories, the heroic acts, and daily life of the people. *This course is usually paired with Greek Mythology 1st semester.*

COURSE: Creative Writing
COURSE LENGTH: 1st Semester

CREDIT: .5 GRADE LEVEL: 10-12
PREREQUISITE: English 1

COURSE DESCRIPTION: In Creative Writing students will complete a variety of writing projects. Subjects written about may include tall tales, fantasy myths, short stories, etc. The course will enrich the student's imagination as well as increase vocabulary, grammar, and writing skills. *This course is usually paired with Contemporary Literature 2nd semester.*

COURSE: Contemporary Literature
COURSE LENGTH: 2nd Semester

CREDIT: .5 GRADE LEVEL: 10-12
PREREQUISITE: English 1

COURSE DESCRIPTION: In Contemporary Literature students will complete genre studies using contemporary young adult literature. Students will strengthen reading comprehension and participate in a variety of group and individual projects. *This course is usually paired with Creative Writing 1st semester.*

ELECTIVES

COURSE: At-Risk Hour
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 9-12
PREREQUISITE: None

COURSE DESCRIPTION: This course is designed for students who need additional supports during the school day. Students will be assigned this course by a team of school personal so that the student will have additional time and resources to be successful. *This course will be assigned to students needing additional assistance.*

COURSE: Seminar
COURSE LENGTH: Year

CREDIT: .5 GRADE LEVEL: 9-12
PREREQUISITE: None

COURSE DESCRIPTION: Each student will be assigned to an 8th hour Seminar homeroom. Seminar is scheduled four days a week (M, T, TH, F) for 30 minutes for students not attending MATC. Students will have the opportunity to obtain 1:1 or small group instruction from classroom teachers to review classroom curriculum, review for tests, etc. Each SHS student will have a seminar class 8th hour unless you attend MATC.

COURSE: Office Assistant
COURSE LENGTH: Year

CREDIT: .5 GRADE LEVEL: 11-12
PREREQUISITE: Must Apply

COURSE DESCRIPTION: Only Juniors and Seniors may APPLY to be office assistants. Students selected to be office assistants may be assigned to the library, main office, or counseling office. Students will be involved in basic clerical work, running errands, making copies, sorting mail, updating bulletin boards, and other general office duties. The student will be under the direction and supervision of staff and administration. Students will be graded on their ability to complete tasks assigned as well as their attitude, behavior, and willingness to work. Students will earn a .25 credit each semester for a total of .5 elective credit for the year. *You must fill out an application and be selected by office staff before becoming an office assistant.*

COURSE: A+ Tutor
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 12

PREREQUISITE: Teacher, Counselor, and Administrator Approval – Completion of the A+ Schools Program Letter of Intent and must meet all program requirements as defined in the Sturgeon R-V High School A+ Schools Program Handbook.

COURSE DESCRIPTION: A+ Tutoring is designed to provide A+ Schools Program participants the opportunity to complete at least 50 hours of unpaid school-based tutoring with students enrolled in the Sturgeon R-V School District under the direct supervision of district staff members. A+ Tutors will provide students with academic assistance to improve their knowledge base and skills. A+ Tutors can choose to complete their tutoring hours during summer school or during their senior year of high school. Placement will be determined by classroom need and teacher selection. If you will be tutoring at the K-8 building you MUST have reliable transportation. *You must be*

approved by the school counselor, A+ Coordinator, and Administration before starting your tutoring hours. Summer school tutoring hours may or may not count for high school elective credit.

FOREIGN LANGUAGE

COURSES: Spanish 1-4, French 1-4, German 1-4, Arabic 1-3, Chinese 1-4

CREDIT: 1 **GRADE LEVEL:** 9-12

COURSE LENGTH: Year

PREREQUISITE: For 1st year Foreign Language students must have had a B or higher in their previous English course. For subsequent years of Foreign Language students must pass the previous year of Foreign Language.

COURSE DESCRIPTION: For each language, Level I is the completion of Level 1 and half of Level 2 in Rosetta Stone, in other words it's the completion of 6 units. The emphasis is on grammar, syntax, and vocabulary. The Rosetta Stone Program will be enable the student to communicate in more than one verb tense, to use more complex sentence structure, to have a more varied vocabulary base and to have a better idea of the culture of each population.

MATH DEPARTMENT

COURSE: Algebra 1

CREDIT: 1 **GRADE LEVEL:** 9

COURSE LENGTH: Year

PREREQUISITE: None

COURSE DESCRIPTION: Algebra 1 is designed to bridge the gap between elementary and middle school math skills and develop a more symbolic, abstract and problem solving approach to mathematics. Students will perform basic arithmetic operations on all types of real numbers without a calculator. Students will be able to solve multiple step linear equations. Students will be able to graph various linear and nonlinear one and two variable functions. Students will be able to solve various problems involving simple probabilities. Students will demonstrate the ability to display data in multiple formats. Students will be able to solve quadratic and trigonometric equations. *Students taking this course will be required to take the Algebra 1 End-of-Course (EOC) Exam at the end of the second semester.*

COURSE: Algebra 1 Part 1

CREDIT: 1 **GRADE LEVEL:** 9

COURSE LENGTH: Year

PREREQUISITE: Test Scores & Teacher recommendations

COURSE DESCRIPTION: Algebra 1Part 1 is designed to prepare students to enter the Algebra I Part II course and connect what they have learned in elementary and middle school and to give a solid foundation and understanding of mathematical relationships to be used throughout life. Students will understand and apply the fundamentals of mathematics and algebra for both classroom use and real life situations. Students will understand the meanings of operations and how they relate to one another. Students will represent and analyze mathematical situations and structures using algebraic symbols.

COURSE: Algebra 1 Part 2

CREDIT: 1 **GRADE LEVEL:** 10-12

COURSE LENGTH: Year

PREREQUISITE: Algebra 1 Part 1

COURSE DESCRIPTION: Algebra 1 Part 2 is designed for students who have completed Algebra 1 Part 1. It will advance their prior mathematical knowledge while supplementing what they learned in Algebra I Part I resulting in a symbolic, abstract and problem solving approach to the complex world beyond high school. Students will perform basic arithmetic operations on all types of real numbers without a calculator. Students will be able to solve multiple step linear equations. Students will be able to graph various linear and nonlinear one and two variable functions. The students will be able to solve various problems involving simple probabilities. Students will demonstrate the ability to display data in multiple formats. Students will be able to solve quadratic and trigonometric equations. *Students taking this course will be required to take the Algebra 1 End-of-Course (EOC) Exam at the end of the second semester.*

COURSE: Geometry

CREDIT: 1 **GRADE LEVEL:** 9-12

COURSE LENGTH: Year

PREREQUISITE: Algebra 1

COURSE DESCRIPTION: Geometry is the understanding and applying concepts, proofs, theorems, and relationships of geometric shapes, lines, and angles. Students will understand and apply the fundamentals of mathematics and geometry for both classroom and real life situations. Students will apply appropriate techniques, tools and formulas to determine measurements. Students will analyze characteristics and properties of two and three dimensional shapes and develop mathematical arguments about geometric relationships. *Students taking this course may be required to take the Missouri End-of-Course (EOC) Exam at the end of the second semester.*

COURSE: Applied Geometry
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 10-12
PREREQUISITE: Algebra 1 Part 2

COURSE DESCRIPTION: Geometry is the understanding and applying concepts, proofs, theorems, and relationships of geometric shapes, lines, and angles. Students will understand and apply the fundamentals of mathematics and geometry for both classroom and real life situations. Students will apply appropriate techniques, tools and formulas to determine measurements. Students will analyze characteristics and properties of two and three dimensional shapes and develop mathematical arguments about geometric relationships with less of an emphasis on proofs. *Students taking this course may be required to take the Missouri End-of-Course (EOC) Exam at the end of the second semester.*

COURSE: Algebra 2
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 10-12
PREREQUISITE: Geometry

COURSE DESCRIPTION: Algebra 2 will strengthen the student's knowledge and skills obtained in Algebra 1 and introduce problem solving strategies using matrices, exponential functions, statistics and probability, trigonometry, imaginary numbers, series and sequences, and more. Students will have a good understanding of the more advanced Algebraic concepts and be prepared to advance to high mathematics. *Students who took the Algebra 1 EOC Exam in 8th grade will have to take the Algebra 2 EOC Exam in high school in order to meet state accountability requirements.* *Other students taking this course may be required to take the Missouri End-of-Course (EOC) Exam at the end of the second semester.*

COURSE: Trigonometry
COURSE LENGTH: 1st Semester

CREDIT: .5 GRADE LEVEL: 11-12
PREREQUISITE: Algebra 2

COURSE DESCRIPTION: Trigonometry will provide an introduction for students who will pursue pre-calculus or higher math beyond high school. Students will learn trigonometric functions and their properties, circular functions and their graphs, oblique triangles, sinusoidal variation, vectors in the plane, complex numbers and also see how they are applied in real world problems. The use of a graphing calculator will be an integral part of the course. Students will have an understanding of trigonometric functions that they will be able to use beyond high school. Students will be able to apply trigonometric skills to solve real world problems. *This course is usually paired with DC College Algebra 2nd semester.*

COURSE: DC College Algebra*/Intermediate College Algebra
COURSE LENGTH: 2nd Semester

CREDIT: .5 GRADE LEVEL: 11-12
PREREQUISITE: 3.0+ GPA, 22+ on ACT Math

COURSE DESCRIPTION: DC College Algebra will include a review of basic algebra; various functions and their graphs, including polynomial and rational functions and exponential and logarithmic functions; and an introduction to analytic geometry. The course also includes systems of equations. *This course is usually paired with Trigonometry 1st semester. Students who do not qualify for DCON College Algebra will be in Intermediate College Algebra.*

MUSIC DEPARTMENT

COURSE: Band
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 9-12

PREREQUISITE: Previous Instrumental Experience or Instructor Approval

COURSE DESCRIPTION: Band is offered for grades 9-12, that have previous instrumental experience. If they have not, they will need permission to join this class. The band performs 3 concerts a year, attends various musical activities in our conference and district, and also adds to the excitement at home basketball games. Students are expected to attend all events in the year, this class is performance based and will have grades given for concerts and activities, along with in class assessments.

COURSE: Choir
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 9-12

PREREQUISITE: Previous Choir Experience or Instructor Approval

COURSE DESCRIPTION: Choir is offered for grades 9-12 that have previous choir experience. If they have not, they will need permission to join this class. Students will have in-house performances along with participating in Conference and District choir events. Students will also perform at KOMU. In odd numbered school years there is a musical in the fall that requires considerable outside time to prepare and participate. This is a SINGING class. Students are expected to participate in all of the performances. The class is performance based along with in class assignments.

PHYSICAL EDUCATION DEPARTMENT

COURSE: Physical Education
COURSE LENGTH: Year

CREDIT: 1 **GRADE LEVEL:** 9-12
PREREQUISITE: None

COURSE DESCRIPTION: This is an introduction to physical education where a variety of athletic events will be taught together with basic exercise and activities to improve strength, flexibility, agility and coordination. The Presidential Fitness test will also be administered in this class. This course will help students improve on the five components of physical fitness, instill good exercise habits, and help students learn about their body and its movements. *Students must earn 1 credit of PE in order to meet the state graduation requirements.*

COURSE: Health
COURSE LENGTH: Semester

CREDIT: .5 **GRADE LEVEL:** 9-12
PREREQUISITE: None

COURSE DESCRIPTION: Health is designed to explore mental, social and physical wellness. The class will promote knowledge and understanding of nutrition, family and social health, body systems and functions, and care and prevention of disease, illness and injuries. By promoting a healthy lifestyle and positive health behaviors the student will be able to better function in all aspects of daily life. Students will be able to evaluate their health and assess methods to assist with health related choices. This is an online course taught through Acellus. *This course is usually paired with a semester of Personal Finance.*

COURSE: Body Conditioning
COURSE LENGTH: Year

CREDIT: 1 **GRADE LEVEL:** 10-12
PREREQUISITE: PE or Instructor Approval

COURSE DESCRIPTION: Body Conditioning is a rigorous course designed for the student who wishes to achieve an optimum level of physical fitness through weightlifting and other cardiovascular exercises. This course will help students see improved body mass composition, improve and maintain healthy cardio levels, and give understanding and benefits of healthy body. *Class size is limited to 14 students due to size of weight room and safety concerns.*

COURSE: Lifetime Sports
COURSE LENGTH: Year

CREDIT: 1 **GRADE LEVEL:** 10-12
PREREQUISITE: PE or Instructor Approval

COURSE DESCRIPTION: Lifetime Sports emphasizes activities that an individual can and may participate in throughout life. These activities are less of high impact and contact. Such activities include badminton, table tennis and horseshoes. This course will help students instill a sense to keep exercising as we age, find an activity to help maintain a healthy fitness level, and learn about our body and the effects of exercise.

COURSE: Team Sports
COURSE LENGTH: Year

CREDIT: 1 **GRADE LEVEL:** 10-12
PREREQUISITE: PE or Instructor Approval

COURSE DESCRIPTION: Team Sports emphasizes the team aspect of sports. Students will participate in team sports such as basketball, volleyball, etc. This course will help students gain knowledge of rules of the games, teamwork, and instill an understanding of maintaining a healthy cardio level.

SCIENCE DEPARTMENT

COURSE: Physical Science
COURSE LENGTH: Year

CREDIT: 1 **GRADE LEVEL:** 9
PREREQUISITE: None

COURSE DESCRIPTION: Physical Science is an introductory course to the sciences of chemistry and physics. Students are provided the opportunity to understand, appreciate, and to relate the interaction of matter and energy in their physical environment through a variety of classroom experiences. An emphasis will be placed on performing laboratory investigations, problem solving and utilizing critical thinking skills. Students will be able to assess forces and motion and understand interactions of energy and matter. Students will be able to differentiate between atomic structures and interactions and be able to assess the structure and properties of matter.

COURSE: Biology
COURSE LENGTH: Year

CREDIT: 1 **GRADE LEVEL:** 10
PREREQUISITE: Physical Science

COURSE DESCRIPTION: Biology is offered as the 10th grade core biology course. The EOC will cover all material presented in this course. Biology covers the principles of biology and presents the cell the unit of structure and functions of organisms. Biology introduces the interrelationship between organisms and the environment in which they live. *Students taking this course will be required to take the Biology Missouri End-of-Course (EOC) Exams at the completion of second semester.*

COURSE: DC Chemistry***CREDIT: 1****GRADE LEVEL: 11-12****COURSE LENGTH: Year****PREREQUISITE: 3.0+ GPA, Equivalent of B or better in Physical Science; C or better in Biology; completed or concurrent enrollment in Algebra II**

COURSE DESCRIPTION: General Chemistry I is the first course in the general chemistry sequence and emphasizes the fundamental principles of chemistry. Topics include measurement, physical and chemical processes, nomenclature, atomic structure, quantum theory, stoichiometry, molecular structure, bonding theory, physical properties of gases, thermochemistry, and properties of solutions. Upon completion of the course, students should be able to demonstrate an understanding of the fundamental chemical laws and concepts and will obtain prerequisite chemical knowledge needed for advancement to General Chemistry II. This course is designed for pre-professional, science, and engineering majors but is open to all students who have met the prerequisite. Course includes a laboratory component. (PHY 121, MACC)

COURSE: Physics**CREDIT: 1****GRADE LEVEL: 11-12****COURSE LENGTH: Year****PREREQUISITE: 3.0+ GPA, Equivalent of B or better in Physical Science; C or better in Biology; completed or concurrent enrollment in Algebra II**

COURSE DESCRIPTION: Physics is designed to help students think and analyze problems in the real world. Physics will cover the study of measurements, vectors, kinematics, statics, dynamics, momentum, work, power, energy, thermodynamics and heat. Mathematics is used extensively to solve equations related to these topics. Labs are used when appropriate to the material being covered. Students will be able to relate and graph the direction and magnitude of velocity and acceleration to the motion of objects. Students will be able to describe and differentiate between kinetic and potential energy in a system. Students will be able to define and differentiate forces.

COURSE: Earth Science**CREDIT: 1****GRADE LEVEL: 11-12****COURSE LENGTH: Year****PREREQUISITE: Physical Science, Biology**

COURSE DESCRIPTION: Earth Science explores the introductory principles of the geosciences, plate tectonics, energy, biogeochemical cycles, and the atmosphere. We will also explore how basic interactions of matter and energy control global activity in the atmosphere, hydrosphere, lithosphere, and biosphere. Students will gain a working knowledge of the processes that continually shape and affect our world. Students will use projects and lab investigations to observe and describe the interactions of matter and energy as they relate to geoscience.

COURSE: Zoology**CREDIT: 1****GRADE LEVEL: 11-12****COURSE LENGTH: Year****PREREQUISITE: Biology**

COURSE DESCRIPTION: Zoology will study the diversity of animal life and the adaptations that enable animals to inhabit so many ecological characteristics. Each student will be responsible for learning the main characteristics of each phylum covered in class and be able to identify them based on specimens. Students will be expected to handle and dissect various real life specimens.

COURSE: Human Anatomy**CREDIT: 1****GRADE LEVEL: 11-12****COURSE LENGTH: Year****PREREQUISITE: Biology**

COURSE DESCRIPTION: Human Anatomy is designed as a college prep anatomy course. It will be a presentation of the human body with emphasis on structure and limited general physiology. First semester will cover topics including: Cells, tissues, skeleton, and muscles. The second semester will cover systems such as digestive, circulatory, respiratory, reproductive, urinary, nervous, endocrine system, and sensory organs. Be prepared to dissect: rats, sheep brains, cow eyes, sheep hearts, and cats.

SOCIAL STUDIES DEPARTMENT

COURSE: American Government & Economics
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 9
PREREQUISITE: None

COURSE DESCRIPTION: The purpose of this course is to provide a basic understanding of the foundations, structure and functions of our republican form of government. Primary focus will be placed on an in-depth study of the U.S. Constitution. The overall goal is to develop students who are able to function as educated, responsible and productive citizens in a democratic society. *Students taking this course will be required to take the American Government End-of-Course (EOC) Exam at the completion of the second semester.*

COURSE: World History
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 10
PREREQUISITE: None

COURSE DESCRIPTION: World History is an in-depth study of our global community's past, emphasizing the people and events that changed past societies, and how these changes affect our modern society. The course is separated into lessons comprising the following topic areas: Early civilizations such as Ancient Greece and Rome, the rise of Christianity and civilizations of the Americas, societies of the Middle Ages such as the Byzantine Empire, Russia and Eastern Europe, the Renaissance and Reformation, the start of the Global Age in Europe, Africa, Asia, and the Americas, the Age of Absolutism, the regional civilizations of Islam, Africa, and the spread of civilization in East and Southeast Asia. Other topic areas include the French Revolution and Napoleon, the beginning of the Industrial Revolution and the Revolutions of Europe and Latin America, Nationalism in Europe, the growth of Western Democracies, and New Imperialism. The course closes with World War I and the Russian Revolution, the rise of totalitarianism, World War II and its aftermath, the world since 1945 including the Cold War, the emergence of new nations, regional conflicts, the developing world and the world today.

COURSE: American History
COURSE LENGTH: Year

CREDIT: 1 GRADE LEVEL: 11
PREREQUISITE: None

COURSE DESCRIPTION: American History provides a broad survey of the major events, individuals and themes that have defined and shaped the unique character of the American nation. The study of American history will begin with the creation of the American nation prior to 1776 and continue through modern times with primary emphasis placed on the period following the Civil War. The overall goal for this course is to develop students who are able to use the lessons from the past to contribute as informed citizens in a democratic society to America's present and future.
