

Sturgeon R-V Schools

Career & Educational Planning Guide

2016-2017

STURGEON R-V HIGH SCHOOL
24350 N. Fairgrounds Rd.
Sturgeon MO 65284
(573)687-3512
www.sturgeon.k12.mo.us

2016-2017

SUPERINTENDENT: Mr. Shawn Schultz
PRINCIPAL: Mrs. Becky Schafer
SCHOOL COUNSELOR: Mrs. Mona Lara

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STUDENT GRADUATION REQUIREMENTS

Students must earn 24 units of credit to be eligible for graduation. Students earn credit through both regular attendance and completing required class work. They must also pass the United States and Missouri Constitution tests while in high school.

The following are the minimum units of credit a student must earn prior to graduation:

Language Arts (English)-4	*Practical Arts-(Must include Personal Finance)-1.5
Fine Arts (Art, Band, Choir)-1	Science-3
Health-.5	Social Studies-3
Mathematics-3	Electives-7
Physical Education-1	

*Students that choose to attend Moberly Area Technical Center must earn 6.5 Practical Art credits and 2 Elective credits.

SCHEDULE CHANGES

Students may request a schedule change through the first three days of each semester. Schedule changes must be approved by the School Counselor, Teacher, and Parent/Guardian(s). After the first three days, students must have approval from the Principal to make changes.

SPECIAL SERVICES

Courses are available for individual students with diagnosed special needs.

CREDIT RECOVERY

Students who find themselves short on credits should discuss the various options for credit recovery with the School Counselor as soon as possible.

GRADE POINT AVERAGES

Grade point averages are calculated on an eleven-point scale. This allows for a more precise distinction to be made between candidates for academic honors at the end of the year. The eleven-point scale is as follows:

A (100%-95%)	11 Points
A- (94-90%)	10 Points
B+ (89-87%)	9 Points
B (86-83%)	8 Points
B- (82-80%)	7 Points
C+ (79-77%)	6 Points
C (76-73%)	5 Points
C- (72-70%)	4 Points
D+ (69-67%)	3 Points
D (66-63%)	2 Points
D- (62-60%)	1 Point
F (59-0%)	0 Points

A+ SCHOOLS PROGRAM ELIGIBILITY

Sturgeon R-V High School is an A+ designated school through the state of Missouri. This designation allows every student who meets the A+ eligibility requirements to attend a Missouri Community College or Vocational/Technical School tuition free. Students who wish to participate in the program must sign an A+ Agreement form and return it to the high school counselor office.

A+ Program Requirements:

- Sign an A+ Agreement and submit it to the counselor office.
- Attend a designated A+ high school for 3 consecutive years.
- Graduate with a cumulative GPA of 2.5 on a 4.0 scale or 6.875 GPA on an 11.0 scale.
- Maintain a 95% attendance record for 4 years of high school.
- Maintain a record of good citizenship.
- Perform 50 hours of unpaid tutoring/mentoring under the supervision of Sturgeon R-V School District staff.
- Make a good faith effort to secure federal post-secondary funds by submitting the Free Application for Federal Student Aid (FAFSA).
- Register with the Selective Service.
- The graduating class of 2015 and beyond must score Proficient or Advanced on the Algebra I End of Course Assessment.

For additional information, refer the A+ Schools Program Handbook, or contact the A+ Coordinator.

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. To best prepare for the assessment, students should complete rigorous academic coursework throughout high school. To help students prepare for the ACT, the Sturgeon R-V School District offers ACT review sessions taught by SHS staff. We also offer a five-hour workshop facilitated by Focus on Learning, Inc. For more information on the ACT, visit www.act.org or contact the guidance counselor.

GENERAL INFORMATION

Guidelines for schedule planning and registration are intended to provide students with the information necessary to plan a balanced program of study and prepare them for their post-secondary educational and career goals. Sturgeon High School offers a variety of dual credit courses each year through Moberly Area Community College. Some dual credit courses are offered in-house and taught by SHS staff; other courses are offered on-line and taught by MACC faculty. Dual credit allows juniors and/or seniors to earn high school and college credit simultaneously. Students must meet GPA requirements in order to enroll in dual credit courses, in addition to specific ACT or COMPASS scores for select courses. Contact the guidance counselor for more information.

Recommended Courses:

FRESHMEN	SOPHOMORES	JUNIORS	SENIORS
Language Arts I	Language Arts II	Language Arts III	Language Arts IV or Other Language Arts 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
U.S. Govt. and the Economy	World History	American History	May attend MATC
Physical Science	Biology	Science Course	Choose from core requirements or elective courses
*Health/*9 th P.E.	*Personal Finance	May attend MATC	Seminar
Seminar	Seminar	Choose from core requirements or elective courses	
2 Elective Credits-Art, Band, Choir, C.S.A. or Spanish I	2 Elective Credits	Seminar	

* Semester Course/MATC=Moberly Area Technical Center

COURSE DESCRIPTIONS

(All courses will have a mandated final exam at the end of 1st semester and a comprehensive final exam at the end of 2nd semester. Each final exam will be worth 20% of the final semester grade.)

AGRICULTURAL SCIENCES

CASE: INTRO TO AG, FOOD AND NAT. RESOURCES

Course Length: 2 SemesterS

Credit/Semester: 1 High School Credit

Grade: 9-10

Prerequisite: NONE

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)

Course Rationale: Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. An understanding of the careers, leadership, and basic scientific concepts in the agriculture industry provides a sound background to pursue an agricultural career.

AGRICULTURAL SCIENCE II

Course Length: 2 Semesters

Credit/Semester: 1 High School Credit

Grade: 10-12

Prerequisite: Ag Science I or CASE Intro to AFNR

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 Rationale: Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. An understanding of the careers, leadership, and basic principles in the agriculture plant and food industry provides a sound background to pursue an agricultural career

AGRICULTURAL MNGMT AND ECON

Course Length: 2 Semesters

Credit/Semester: 1 High School Credit

Grade: 11-12

Prerequisite: Ag Science I or CASE Intro to AFNR

Description: This course combines farm management, agribusiness management, and content based on agricultural economic principles. Computer applications are included to enhance student understanding and utilization of current technology. Units include human relations, verbal and written communication, microcomputers in agriculture, economic principles, farm planning, agribusiness functions, and business management. (CD 016730, CIP 01.0101)

Course Rationale: Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. An understanding of the careers, leadership, and basic principles in the agriculture plant and food industry provides a sound background to pursue an agricultural career

AGRICULTURAL STRUCTURES

Course Length: 2 Semesters

Credit/Semester: 1 High School Credit

Grade: 11-12

Prerequisite: Ag Science I or CASE Intro to AFNR

Description: This course includes electrical wiring, electrical motors, concrete masonry, plumbing and sewage disposal, farm fences, product handling and processing equipment, and farm buildings. (CD 016720, CIP 01.0201)

Course Rationale: Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Basic construction skills and knowledge in electricity, plumbing, concrete, and masonry are necessary for the building of agricultural structures.

ART

ART 101: ART SURVEY & APPRECIATION (Pre-History to the Renaissance)/Dual Credit

Course Length: 1 Semester
Credit/Semester: .5 High School Credit/3 College Credits
Grade: 11-12
Prerequisite: 3.0 Cumulative GPA
Description: Dual credit 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 Renaissance. They will describe, critically analyze, and interpret artworks, trace artistic influences and evaluate art from various aesthetic perspectives. This study of art appreciation 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.

Main Objectives:

1. Students will gain an understanding of art forms within diverse historical and cultural contexts.
2. Students will examine major forms of artistic expression.
3. Students will describe and critically analyze artwork.
4. Students will interpret artworks.
5. Students will trace artistic influences.
6. Students will evaluate art from various aesthetic perspectives.

ART 102: ART SURVEY & APPRECIATION (Renaissance to Modern Art)/Dual Credit

Course Length: 1 Semester
Credit/Semester: .5 High School Credit/3 College Credits
Grade: 11-12
Prerequisite: 3.0 Cumulative GPA
Description: Dual credit 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 the Renaissance to Modern art. They will describe, critically analyze, and interpret artworks, trace artistic influences and evaluate art from various aesthetic perspectives. This study of art appreciation 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.

Main Objectives:

1. Students will gain an understanding of art forms within diverse historical and cultural contexts.
2. Students will examine major forms of artistic expression.
3. Students will describe and critically analyze artwork.
4. Students will interpret artworks.
5. Students will trace artistic influences.
6. Students will evaluate art from various aesthetic perspectives

ART FOUNDATIONS

Course Length:	2 Semesters
Credit/Semester:	.5
Grade:	9-12
Prerequisite:	None
Description:	Art I is the beginning course for all students who want to pursue an interest or future career in the visual arts. Students enrolled in art courses will be expected to provide some supplies/materials throughout the course.
Main Objectives:	<ol style="list-style-type: none">1. Students will create original artwork.2. Students will analyze and critique artworks3. Students will discuss aesthetic issues.4. Students will understand how art is related to history and culture.

ART DRAWING AND PAINTING

Course Length:	2 Semesters
Credit/Semester:	.5
Grade:	10-12
Prerequisite:	To enroll students must have completed Art I with a passing grade.
Description:	The program of instruction in the Fine Arts is structured to provide every student with an opportunity to develop his/her aesthetic potential to the fullest, i.e. to develop the individual's awareness, appreciation, and abilities in the art. Students enrolled in art courses will be expected to provide some supplies/materials throughout the course.
Main Objectives:	<ol style="list-style-type: none">1. Students will develop technical skills in the use of various media.2. Students will express themselves through the themes of observation.3. Students will analyze and critique artworks.4. Students will discuss aesthetic issues.5. Students will understand how art is related to history and culture.

ART DRAWING AND PAINTING II

Course Length:	2 Semesters
Credit/Semester:	.5
Grade:	11-12
Prerequisite:	To enroll students must have completed Art I and II with a passing grade.
Description:	Art III is for students who want to pursue an interest or future career in the visual arts. A grade of B or better in Art II is strongly recommended. Students must be motivated, self-starters and able to work on their own. Students enrolled in art courses will be expected to provide some supplies/materials throughout the course.
Main Objectives:	<ol style="list-style-type: none">1. Students will develop advanced technical skills in the use of various media.2. Students will create original two-dimensional and three dimensional artworks.3. Students will analyze and critique artworks.4. Students will discuss aesthetic issues.5. Students will understand how art is related to history and culture.

ART DRAWING AND PAINTING IV

Course Length: 2 Semesters

Credit/Semester: .5

Grade: 12

Prerequisite: To enroll students must have completed Art I, II and III with a passing grade.

Description: Art IV is for the serious student who wants to pursue an interest or future career in the visual arts. A grade of B or better in Art III is strongly recommended. Students must be motivated, self-starters and able to work on their own. Students enrolled in art courses will be expected to provide some supplies/materials throughout the course.

Main Objectives:

1. Students will develop advanced technical skills in the use of various art media.
2. Students will create original artworks based upon a series of related works.
3. Students will create artwork inspired by historical study.
4. Students will describe and critically analyze artwork.
5. Students will interpret artworks.
6. Students will trace artistic influences.
7. Students will evaluate art from various aesthetic perspectives.

CERAMICS

Course Length: 1 Semester

Credit/Semester: .5

Grade: 10-12

Prerequisite: Passing grade in Art Fundamentals, A grade of C or better is recommended.

Description: Students will develop and use ceramic hand-building methods, wheel throwing and decorative surface techniques. They will create original functional and non-functional pieces. Students will express themselves through the themes of ceremonial containers, teapots, and representational sculpture. Students will analyze and critique artworks, discuss aesthetic issues, and understand how ceramic objects have been used in history across many cultures.

CRAFTS

Course Length: 2 Semesters

Credit/Semester: .5

Grade: 11-12

Prerequisite: To enroll students must have completed Art I and Art II with a passing grade.

Description: Crafts provide a focus for students who want an alternative to traditional drawing and painting. They will work with 2-D and 3-D materials. Students enrolled in art courses will be expected to provide some supplies/materials throughout the course.

Main Objectives:

1. Students will use various techniques to create original artworks.
2. Students will be inspired by the artwork from various cultures.
3. Students will analyze and critique artworks.
4. Students will discuss aesthetic issues.
5. Students will understand how art is related to history and culture.

GRAPHIC DESIGN I

Course Length: 1 Semester

Credit: .5

Grade: 10-12

Prerequisite: Passing grade in Art Fundamentals, A grade of C or better is recommended.

Description: Students will explore visual communication as it applies to commercial art careers. They will create original posters, magazine and book designs,

illustrations, and communicate identity through logo designs. Students will learn and use technical skills with traditional drawing and painting media and with some computer software programs. Students will analyze and critique artworks, discuss aesthetic issues, and understand the evolution of letterforms and origins of graphic design in the history of art.

PHOTOGRAPHY I

Course Length: 1 Semester
Credit: .5
Grade: 11-12
Prerequisite: None
Description: Students will explore the world of 35 mm black and white photography. They will learn to operate their digital camera and print from a SD card on the computer. Students enrolled in art courses will be expected to provide some supplies/materials throughout the course.

1. Students will create original photographs.
2. Students will analyze and critique photographs.
3. Students will discuss aesthetic issues.
4. Students will understand the historical development of photography.
5. Students will understand historical styles in photography.

PHOTOGRAPHY II

Course Length: 1 Semester
Credit: .5
Grade: 12
Prerequisite: To enroll in this course students must have completed Photography I with a B or better.
Description: Students will continue to learn about technical skill with traditional black and white photography. They will learn to use digital cameras and computer software to manipulate and refine images. Students enrolled in art courses will be expected to provide some supplies/materials throughout the course.

Main Objectives:

1. Students will express themselves through personal themes.
2. Students will analyze and critique photographs.
3. Students will discuss aesthetic issues.
4. Students will relate a photographer's work to the society in which it was created.

BUSINESS/COMPUTER EDUCATION

ACCOUNTING I ** Will NOT be offered in 2016-17 School Year**

Course Length: 2 Semesters
Credit/Semester: .5
Grade: 11-12
Description: Accounting I is designed to build a basic understanding of accounting principles, concepts, and procedures. Activities include using the accounting equation, completing the accounting cycle, entering transactions to journals, posting to ledgers, preparing end-of-period statements and reports, managing payroll systems,

- completing banking activities, calculating taxes, and performing other related taxes.
- Main Objectives:
1. Students will define accounting terms and apply accounting concepts as they relate to the accounting equation and analyze them into debit and credit parts.
 2. Students will classify accounts as assets, liabilities, and owner's equity and demonstrate their relationships in accounting and how transactions are affected in the accounting equation.
 3. Students will utilize a five-column journal by recording transactions, posting to a general ledger, maintaining cash control systems, preparing and completing a work sheet and financial statements.

BUSINESS TECHNOLOGY or DUAL CREDIT INTRO TO BUSINESS

- Course Length: 2 Semesters
 Credit/Semester: .5
 Grade: 12
 Prerequisite: None
 Description: Business Technology is designed to help students develop the qualities, knowledge, and skills necessary for working in a business. 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. 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.

- Main Objectives:
1. Students will explore careers in business, prepare for employment, demonstrate proper workplace behavior, and develop career management strategies.
 2. Students will apply technology to business applications and use the Internet as a business tool.
 3. Students will communicate effectively, use business equipment, apply business administrative skills, and demonstrate entrepreneurial awareness.

COMPUTER APPLICATIONS I

- Course Length: 1 Semester
 Credit/Semester: .5
 Grade: 9-12
 Prerequisite: None
 Description: Computer Applications I is designed to help student's master beginning and advanced skills in the areas of word processing, Internet usage, and integrated software applications. The course helps students develop and enhance touch skills for entering alphabetic, numeric, and symbol information on a keyboard and apply keyboarding skills to produce a variety of personal and business documents. 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.

- Main Objectives:
1. Students will properly use word processing applications, spreadsheet applications, database applications, presentation
 2. Students will demonstrate basic computer knowledge and ethics.

3. Students will use proper keyboarding techniques and demonstrate keyboarding skills.
4. Students will apply formatting skills, produce business documents, and demonstrate employability skills.

COMPUTER APPLICATIONS II

Course Length:	1 Semester
Credit/Semester:	.5
Grade:	10-12
Prerequisite:	To enroll students must have completed Computer Applications I with a passing grade.
Description:	Computer Applications II is designed to help student's master beginning and advanced skills in the areas of database management, spreadsheet applications, desktop publishing, multimedia, Internet usage, and integrated software applications.
Main Objectives:	<ol style="list-style-type: none"> 1. Students will apply input methods and execute basic computer operations. 2. Students will properly use spreadsheet applications, database applications, and presentation software and apply desktop publishing principles. 3. Students will explore the Internet and utilize multimedia in multiple applications. 4. Students will discuss introductory concepts and perform publication set-up. 5. Students will demonstrate typography concepts and design concepts as they relate to desktop publishing.

PERSONAL FINANCE

Course Length:	1 Semester
Credit:	.5
Grade:	10
Prerequisite:	None
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.
Main Objectives:	<ol style="list-style-type: none"> 1. Students will identify income components and sources. 2. Students will develop money management and personal financial decision making skills. 3. Students will determine the benefits and costs of spending and credit; compare consumer choices for saving and investing.

LANGUAGE ARTS (ENGLISH)

LANGUAGE ARTS I ** REQUIRED FOR GRADUATION**

Course Length:	2 Semesters
Credit/Semester:	.5
Grade:	9
Prerequisite:	None

Description: Language Arts I is a required first-year course in the Language Arts program. The purpose of the course is to provide students with a solid foundation in writing Standard English, as well as reading and evaluating basic forms of literature. Students taking this course will be required to take the Missouri End-of-Course (EOC) Exam at the end of second semester.

Main Objectives: 1. Students will study a variety of literary genres and authors.
2. Students will learn the rules of grammar and mechanics of Standard English and be able to transfer that knowledge into formal writing.
3. Students will learn basic research skills.

LANGUAGE ARTS II **REQUIRED FOR GRADUATION**

Course Length: 2 Semesters
 Credit/Semester: .5
 Grade: 10
 Prerequisite: To enroll in this course students must have completed Language Arts I with a passing grade.

Description: The sophomore Language Arts curriculum focuses on writing. 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 literature. Students taking this course will be required to take the Missouri End-of-Course (EOC) Exam at the completion of the second semester.

Main Objectives: 1. The student will study a variety of literary genres and authors.
2. The student will learn grammar and mechanics of Standard English and be able to transfer that knowledge into formal thinking.
3. The student will learn basic research skills.

LANGUAGE ARTS III **REQUIRED FOR GRADUATION**

Course Length: 2 Semesters
 Credit/Semester: .5
 Grade: 11
 Prerequisite: To enroll students must have completed Language Arts I and II with a passing grade.

Description: Language Arts III 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.

Main Objectives: 1. Students will examine works of prose, poetry, and drama from major literary periods of American literature.
2. Students will compare works from different periods.
3. Students will apply rules of grammar, usage, and mechanics in written work.

LANGUAGE ARTS IV

Course Length: 2 Semesters
 Credit/Semester: .5
 Grade: 12
 Prerequisite: To enroll students must have completed Language Arts I, II and III with a passing grade.

Description: This course focuses on drafting and revision to help write clear, concise sentences, paragraphs, and essays. LAIV is also the study of grammar, syntax, and diction with attention given to the relationship these have in the creation of effective writing. Course work consists of the study of models of writing, grammar and

- usage, mechanics, and essays of narration, description, process analysis, comparison/contrast, and argumentation.
- Main Objectives:
1. Students will apply correct grammar, usage, and mechanics to written products.
 2. Students will examine models of writing and apply similar techniques to their own written work.
 3. Students will create essays of a minimum of three pages of double-spaced text in each of the modes required.

EN110 COLLEGE COMPOSITION I/Dual Credit

- Course Length: 1 Semester
 Credit: .5 High School Credit/3 College Credits
 Grade: 12
 Prerequisite: To enroll students must have completed Language Arts I, II and III with a passing grade and have a cumulative GPA of 8.0 or higher on an 11.0 scale.
- Description: EN110 focuses on the techniques of topic development, drafting, and revision to help students write clear, concise sentences, paragraphs, and essays. EN110 is also the study of grammar, syntax, and diction with attention given to the relationship these have in the creation of effective writing. At the college level, this course is required of all entering freshmen who have scored 19 and below on the ACT English subscore. Course work consists of the study of models of writing, grammar and usage, mechanics, and essays of narration, description, process analysis, comparison/contrast, and argumentation.
- Main Objectives:
1. Students will apply correct grammar, usage, and mechanics to written products.
 2. Students will examine models of writing and apply similar techniques to their own written work.
 3. Students will create essays of a minimum of three pages of double-spaced text in each of the modes required.

EN111 COLLEGE COMPOSITION II/Dual Credit

- Course Length: 1 Semester (2nd)
 Credit: .5 High School Credit/3 College Credits
 Grade: 12
 Prerequisite: To enroll students must have completed Language Arts I, II, and III. In addition, they must complete EN110 or equivalent with a grade of C or above and have a cumulative GPA of 8.0 or higher on an 11.0 scale.
- Description: EN111 focuses on techniques of topic development, drafting, and revision to help students write clear, concise sentences, paragraphs, and essays. EN111 is also the study of grammar, syntax, and diction with attention given to the relationship these have in the creation of effective writing. At the college level, this course completes the six hours of credit in composition that is required for degree completion. The course is required of all freshmen who scored 19 or below on the ACT English subscore and who have taken EN110 or its equivalent. Course work consists of the study of models of writing, grammar and usage, mechanics, and essays of cause and effect, classification, argumentation, and literary analysis.
- Main Objectives:
1. Students will apply correct grammar, usage, and mechanics to written products.
 2. Students will examine models of writing and apply similar techniques to their own written work.

3. Students will create essays of a minimum of five pages of double-spaced text in each of the modes required.

GREEK MYTHOLOGY

Course Length: 1 Semester
Credit: .5
Grade: 10-12
Prerequisite: None
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.
Main Objectives: 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.

SCIENCE FICTION

Course Length: 1 Semester
Credit: .5
Grade: 10-12
Prerequisite: None
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.
Main Objectives: 1. Students will develop an understanding of the influence of science fiction on the literary canon.
2. Students will interpret various works through projects.
3. Students will analyze and answer essential questions connected to the study of the written and visual representation of the genre.
4. Students will gain an appreciation of the genre.

SHAKESPEARE

Course Length: 1 Semester
Credit: .5
Grade: 11-12
Prerequisite: None
Description: The study of Shakespeare is designed to acquaint students with several of the most popular works of the playwright. Students read the plays and discuss the works.
Main Objectives: 1. Students will develop an understanding and appreciation for the works of Shakespeare through close reading, scene performance, discussion, and class projects.
2. Students will view several films of the plays and compare the interpretations to the written works.

WORLD MYTHOLOGY

Course Length: 1 Semester
Credit: .5
Grade: 10-12
Prerequisite: None
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
Main Objectives: 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.

FOREIGN LANGUAGE

LANGUAGES OFFERED: SPANISH I, II, III; GERMAN I, II, III; FRENCH I, II, III; ARABIC I, II, III; CHINESE I, II, III

ROSETTA STONE COURSE OVERVIEW:

Course Length: 2 Semesters

Credit/Semester: .5

Grade: 9-12

Prerequisite: To enroll students must have earned a B- or higher in Communication Arts for both semesters prior to enrollment.

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.

Main Objectives:

1. Have a basic working vocabulary of common words.
2. Communicate in more than one tense
3. Identify parts of speech in order to work towards stronger communication.
4. Have a basic understanding of written form in language.

HEALTH

HEALTH

Course Length: 1 Semester

Credit: .5

Grade: 9

Prerequisite: None

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.

Main Objective: Students will be able to evaluate their health and assess methods to assist with health related choices.

MATHEMATICS

ALGEBRA I

Course Length: 2 Semesters

Credit/Semester: .5

Grade: 9-10

Prerequisite: None

Description: Algebra I 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 taking this course will be required to take the Missouri End-of-Course (EOC) Exam at the end of second semester.

- Main Objectives:
1. Students will perform basic arithmetic operations on all types of real numbers without a calculator.
 2. Students will be able to solve multiple step linear equations.
 3. Students will be able to graph various linear and nonlinear one and two variable functions.
 4. Students will be able to solve various problems involving simple probabilities.
 5. Students will demonstrate the ability to display data in multiple formats.
 6. Students will be able to solve quadratic and trigonometric equations.

ALGEBRA II

Course Length: 2 Semesters

Credit/Semester: .5

Grade: 11-12

Prerequisite: To enroll students must have completed Algebra I with a passing grade.

Description: Algebra II will strengthen the student's knowledge and skills obtained in Algebra I and introduce problem solving strategies using matrices, exponential functions, statistics and probability, trigonometry, imaginary numbers, series and sequences, and more. Students taking this course will be required to take the Missouri End-of-Course (EOC) Exam at the end of second semester.

- Main Objectives:
1. Students will have a good understanding of the more advanced Algebraic concepts and be prepared to advance to high mathematics.

ALGEBRA I PART I

Course Length: 2 Semesters

Credit/Semester: .5

Grade: 9

Prerequisite: None

Description: Algebra I Part I 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.

- Main Objectives:
1. Students will understand and apply the fundamentals of mathematics and algebra for both classroom use and real life situations.
 2. Students will understand the meanings of operations and how they relate to one another.
 3. Students will represent and analyze mathematical situations and structures using algebraic symbols.

ALGEBRA I PART II

Course Length: 2 Semesters

Credit/Semester: .5

Grade: 10

Prerequisite: To enroll students must have completed Algebra I Part I with a passing grade.

Description: Algebra I Part II is designed for students who have completed Algebra I Part I. 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 taking this course will be required to take the Missouri End-of-Course (EOC) Exam at the end of second semester.

Main Objectives:

1. Students will perform basic arithmetic operations on all types of real numbers without a calculator.
2. Students will be able to solve multiple step linear equations.
3. Students will be able to graph various linear and nonlinear one and two variable functions.
4. The students will be able to solve various problems involving simple probabilities.
5. Students will demonstrate the ability to display data in multiple formats.
6. Students will be able to solve quadratic and trigonometric equations.

CALCULUS **WILL NOT BE OFFERED 2016-17**

Course Length: 1 Semester

Credit: .5

Grade: 12

Prerequisite: To enroll students must have passed Algebra II.

Description: Students taking Calculus will be introduced to elementary functions, limits and continuity, differential and integral calculus and applications of these topics.

Main Objectives:

1. Students will have an understanding of calculus ideas that they will be able to use beyond high school.
2. Students will learn the many different ways that calculus can be used to solve real world problems.

GEOMETRY

Course Length: 2 Semesters

Credit/Semester: .5

Prerequisite: To enroll students must have completed Algebra I with a passing grade.

Description: Students will work on understanding and applying concepts, proofs, theorems, and relationships of geometric shapes, lines, and angles. Students taking this course will be required to take the Missouri End-of-Course (EOC) Exam at the end of second semester.

Main Objectives:

1. Students will understand and apply the fundamentals of mathematics and geometry for both classroom and real life situations.
2. Students will apply appropriate techniques, tools and formulas to determine measurements.
3. Students will analyze characteristics and properties of two and three dimensional shapes and develop mathematical arguments about geometric relationships.

TRIGONOMETRY

Course Length: 1 Semester

Credit: .5

Grade: 12

Prerequisite: To enroll students must have passed Algebra II.

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.

- Main Objectives:
1. Students will have an understanding of trigonometric functions that they will be able to use beyond high school.
 2. Students will be able to apply trigonometric skills to solve real world problems.

COLLEGE ALGEBRA (CAN BE DUAL CREDIT OR NOT)

Course Length: 1 Semester

Credit: .5

Grade: 11-12

Prerequisite: To enroll students must have passed Algebra II.

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.

- Main Objectives:
1. Students will have an understanding of trigonometric functions that they will be able to use beyond high school.
 2. Students will be able to apply trigonometric skills to solve real world problems.

STATISTICS

Course Length: 2 Semesters

Credit: 1

Grade: 11-12

Prerequisite: To enroll students must have passed Algebra II.

Description:

Main Objectives:

MUSIC

BAND

Course Length: 2 Semesters

Credit/Semester: .5

Grade: 9-12

Prerequisite:

Description: High School Band will enhance already established skills in band technique. We play grade 3, 2 and sometimes grade 1 music to give the school well rounded individuals and student body. There are two sections including concert band and pep band giving the program exposure to as many people as possible; giving validity to a performance based class.

- Main Objectives:
1. Provide students with musical minds.
 2. Push students to new musical levels.
 3. Give the student body diversity in thinking.

CHORUS

Course Length: 2 Semesters

Credit/Semester: .5

Grade: 9-12

Prerequisite: To enroll a student should have been in good standing in middle school choir at least one year, or must audition for placement in the class.

Description: Chorus meets every day for the enjoyment of singing and performance. The students will sing a variety of songs from various genres and styles in various voicing. The choir participates in

District Music Contest and presents two concerts a year and a musical in the odd years. All performances and activities are done to enhance the students' knowledge and interest in the vocal area of Fine Arts.

- Main Objectives:
1. The student will know the process, relationships and technology for production, exhibition, or performance of performed arts.
 2. The student will know principles and elements of different art forms and vocabulary to explain perceptions of music.
 3. The student will know the historical context and cultural context of the performing arts.

PHYSICAL EDUCATION

BODY CONDITIONING

- Course Length: 2 Semesters
Credit/Semester: .5
Grade: 10-12
Prerequisite: Physical Education/9th Grade
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.
- Main Objectives:
1. Help students see improved body mass composition.
 2. Help improve and maintain healthy cardio levels.
 3. Give understanding and benefits of healthy body.

LIFETIME SPORTS

- Course Length: 2 Semesters
Credit/Semester: .5
Grade: 10-12
Prerequisite: Physical Education/9th Grade
Description: This course 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.
- Main Objectives:
1. Instill a sense to keep exercising as we age.
 2. Find an activity to help maintain a healthy fitness level.
 3. Learn about our body and the effects of exercise.

PHYSICAL EDUCATION/9TH GRADE

- Course Length: 1 Semester
Credit: .5
Grade: 9
Prerequisite: None
Description: This is a required course for all freshmen students. 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.
- Main Objectives:
1. Help students improve on the five components of physical fitness.
 2. Instill good exercise habits.
 3. Help students learn about their body and its movements.

TEAM SPORTS

- Course Length: 2 Semesters
Credit/Semester: .5

Grade: 9-12
Prerequisite: None
Description: This course emphasizes the team aspect of sports. Students will participate in team sports such as basketball, volleyball, etc.
Main Objectives:
1. Students will gain knowledge of rules of the games.
2. Students will learn to work together.
3. Instill an understanding of healthy cardio level.

SCIENCE

ASTRONOMY

Course Length: 2 semesters
Credit/Semester: .5
Grade: 11-12
Prereq: 2 years science; pass algebra I
Description: This course will provide the student with an introduction to the concepts of modern astronomy, the origin and history of the Universe and the formation of the Earth and the solar system. Students will compare the Earth's properties with those of the other planets and explore how the heavens have influenced human thought and action. The course gives a description of astronomical phenomena using the laws of physics. The course treats many standard topics including planets, stars, the Milky Way and other galaxies, black holes to more esoteric questions concerning the origin of the universe and its evolution and fate. Although largely descriptive, the course will occasionally require the use of skills learned in algebra and geometry.
Main Objectives:
1. Students will gain a working knowledge of the night sky and the objects visible and invisible to the naked eye.
2. Students will investigate the possible origins of the universe, its galaxies, planets and life within it.
3. Students will work with written and computer-based resources to generate descriptions of the various phenomena discussed.

BIOLOGY

Course Length: 2 Semesters
Credit/Semester: .5
Grade: 10
Description: Biology covers the principles of biology and presents the cell as the unit of structure and functions in organisms. Biology introduces the interrelationship between organisms and the environment in which they live. Inquiry, discovery and investigation are the skills that students will practice that will be important for their everyday world. This course is offered as the 10th grade core biology course. Students taking this course will be required to take the Missouri End-of-Course (EOC) Exam at the completion of the second semester.
Main Objectives:
1. Students will recognize as energy flows through the ecosystem, all organisms capture a portion of that energy and transform it to a form they can use. Students will be able to illustrate and describe the flow of energy through a food web.
2. Students will know how matter and energy flow through the ecosystem. They will be able to explain the processes involved in the recycling of nitrogen, oxygen and carbon through an ecosystem.
3. Students will know that human activity is dependent upon the affects the Earth's resources and systems. Students will be able to predict local and/or global effects of environmental changes when given a scenario describing how the composition of the geosphere,

hydrosphere, or atmosphere is altered by natural phenomena or human activities.

CHEMISTRY

Course Length: 2 Semesters (Will be offered 2016-2017 school year)
Credit/Semester: .5
Grade: 11-12
Prerequisite: To enroll in this course students must have completed Geometry with a C or better.
Description: This course is designed to introduce the fundamental concepts of Chemistry. An emphasis will be placed on the development of scientific thinking, laboratory skills, and problem solving analysis, decision making, and written communication.
Main Objectives: 1. Students will be able to differentiate between the chemical and physical properties of liquids, solids and gases.
2. Students will analyze the major periodic table trends: ionization energy, electron affinity, atomic radius, and electronegativity.
3. Students will identify and use basic rate laws and reaction mechanisms to solve problems.

EARTH SCIENCE

Course Length: 2 Semesters
Credit: .5
Grade: 11-12
Prerequisite: To enroll students must have completed Biology with a passing grade.
Description: This course 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.
Main Objectives: 1. Students will gain a working knowledge of the processes that continually shape and affect our world.
2. Students will use projects and lab investigations to observe and describe the interactions of matter and energy as they relate to geoscience.

HUMAN ANATOMY

Course Length: 2 Semesters
Credit/Semester: .5
Grade: 11-12
Prerequisite: To enroll students must have completed Biology with a passing grade.
Description: Human Anatomy introduces the organization and structure of the human body. Students learn the complex organization from the most basic elements up through highly structured and complex organ systems. This class has an emphasis on both internal and external morphologies learned through various methods of instruction such as anatomical diagrams, SmartBoard technology and dissections. The level of this course is geared toward students who have an interest in the human body or interests in pursuing postsecondary education or careers in the medical or health sciences.
Main Objectives: 1. Students will know that there is a fundamental unity underlying the diversity of all living things.
2. Students will learn there is a genetic basis for the transfer of biological characteristics from one generation to the next. Students will be able to explain how genetic diseases or disorders are expressed or not expressed in subsequent generations.
3. Students will have an understanding of how medical and health sciences and technologies affect and are affected by society.

PHYSICAL SCIENCE

Course Length: 2 Semesters
Credit/Semester: .5
Grade: 9
Prerequisite: None
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.

Main Objectives:

1. Students will be able to assess forces and motion and understand interactions of energy and matter.
2. Students will be able to differentiate between atomic structures and interactions and be able to assess the structure and properties of matter.

PHYSICS

Course Length: 2 Semesters
Credit/Semester: .5
Grade: 11-12
Prerequisite: To enroll in this course students must have completed Algebra II with a C or better or be concurrently enrolled in Algebra II.

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.

Main Objectives:

1. Students will be able to relate and graph the direction and magnitude of velocity and acceleration to the motion of objects.
2. Students will be able to describe and differentiate between kinetic and potential energy in a system.
3. Students will be able to define and differentiate forces.

ZOOLOGY

Course Length: 2 Semesters
Credit/Semester: .5
Grade: 11-12
Prerequisite: To enroll students must have completed Biology with a passing grade.

Description:

Main Objectives:

SOCIAL STUDIES

AMERICAN HISTORY

Course Length: 2 Semesters
Credit/Semester: .5
Grade: 11
Prerequisite: None
Description: The purpose of this course is to provide 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 lessons from the past to contribute as informed citizens in a democratic society. Students taking this course will be required to take the Missouri End-of-Course (EOC) Exam at the end of second semester.

- Main Objectives:
1. Students will define the American nation according to its fundamental values.
 2. Students will discuss the expansion of civil rights and liberties throughout American history.
 3. Students will describe the changing roles and powers of U.S. government throughout American history.

U.S. GOVERNMENT & THE ECONOMY

Course Length: 2 Semesters

Credit/Semester: .5

Grade: 9

Prerequisite: None

Description: The purpose of this course is to provide a basic understanding of the foundations, structure and functions of our republican form of government in particular its role in the American economy. 1st semester will focus on the structures, powers and limitations of federal government and Missouri state government. 2nd semester will place greater emphasis on the political process, civic participation in government and government's various roles in the economy. 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 Missouri End-of-Course (EOC) Exam at the end of second semester.

- Main Objectives:
1. Students will describe the structures, powers and limitations of U.S. government according to the Constitution.
 2. Students will describe the history, structures, powers and limitations of Missouri State government.
 3. Students will identify the rights and responsibilities of citizens in American democracy.
 4. Students will discuss the political process and the relationships between various groups and institutions within U.S. government.
 5. Students will identify the fundamental characteristics of the American free enterprise system [capitalism].

WORLD HISTORY

Course Length: 2 Semesters

Credit/Semester: .5

Grade: 10

Prerequisite: None

Description: The purpose of World History is to provide a broad survey of major events, individuals and ideas that have shaped the global society, specifically those related to the development of western civilization. The study of world history will range from the earliest civilizations to the present with emphasis given to post-1450 events. Some emphasis will be given to the non-Western world.

- Main Objectives:
1. Students will trace the development of democratic government.
 2. Students will describe world cultures according to common history, government, religion and economic systems.

3. Students will explain the various causes for unity and conflict between world cultures.

MISCELLANEOUS

ACT PREP

Course Length: 1 Semester
Credit: .5
Grade: 11-12
Description: ACT Prep is a semester course for students who plan to take the the ACT. The ACT is an achievement test designed to evaluate college readiness. The course will provide students with an understanding for the test, test taking strategies and assistance with interpreting test scores. Students will have the opportunity to complete several ACT practice tests.
Main Objective: Students will have a greater understanding for the ACT and as a result their test scores will improve allowing them more educational and scholarship opportunities after high school.

A+ TUTORING

Course Length: 1 or 2 Semesters
Credit/Semester: .5
Grade: 12
Prerequisite: 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.
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+ participants will provide younger students with academic assistance to improve their knowledge base and skills.
Main Objectives:
1. Students will meet the 50 hours of tutoring/mentoring required for the A+ Program.
2. Students will provide academic assistance to younger students to improve their knowledge/skill base.

CONSUMER MATH

Course Length: 1 Semester
Credit: .5
Grade: 10-12
Prerequisite: None
Description: Consumer Math is designed to give students the requisite math skills for use in the workplace, home, and life in general. The purpose of the course is to enhance basic addition, subtraction, multiplication and division skills used in the consumer market and on the job.
Main Objectives:
1. Students will learn to budget their money.
2. Students will learn how to manage a household, buy and maintain a car, and plan a travel trip.
3. Students will learn about banking and taxes.

MASS MEDIA

Course Length: 2 Semesters
Credit/Semester: .5
Grade: 11-12
Prerequisite: To enroll in this course students must complete an application and receive instructor permission.

Description: This course actively reports the history of the Sturgeon R-V School District each school year. Students will learn journalistic skills as they develop the District yearbooks.

Main Objectives:

1. Students will learn basic publishing skills: layout and design, photography, caption and headline writing, advertising, and sales.
2. Students will learn time management and leadership skills.
3. Students will learn media law as it pertains to yearbook publication.

SEMINAR

Course Length: 2 Semesters
Credit/Semester: .25
Grade: 9-12 for non MATC attendees
Description: Each student will be assigned to a 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.

OFFICE AID

Course Length: 2 Semesters
Credit/Semester: .25
Grade: 12
Prerequisite: None
Description: Seniors may choose to assist in a classroom, the library or office and complete tasks as assigned by the classroom teacher, principal/secretary or librarian. Responsibilities may include, but are not limited to the following: making copies, sorting mail, updating bulletin boards, and filing.

Main Objectives: Students will learn to follow instructions and to complete assigned tasks effectively and in a timely manner.

MOBERLY AREA TECHNICAL CENTER PROGRAMS

Students may choose to enroll in courses at Moberly Area Technical Center during their junior and senior year of high school. Students will earn three practical art credits/year and have the opportunity to earn an additional language arts credit and/or mathematical credit.

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.

Programs include:

Automotive Technology

Building Technology

Business and Technology

Collision Repair Technology

Welding Technology

Computer Information Systems

Electronics Technology

Machine Tool Technology

Marketing

Medical Technology

Architectural & Engineering Design

****All core courses are available through the high school resource room for students who qualify for these services as indicated in their Individualized Educational Plan (IEP).*