

**Smithton High School**  
*Career &  
Educational  
Planning Guide*



**TIGERS**

**2018 - 2019**

## NCAA/NAIA ELIGIBILITY

Students who wish to participate in Division I or Division II sports in college must meet NCAA Clearinghouse eligibility requirements. Students wanting to participate in sports at a NAIA college must meet NAIA Eligibility. Students must register with the NCAA or NAIA online and submit their high school transcript. NCAA & NAIA will analyze a student's academic information and determine if a student meets initial eligibility requirements. Students who qualify are eligible to practice, compete, and receive athletic scholarships as college freshmen. Eligibility requirements and registration information can be found at [www.ncaaclearinghouse.net](http://www.ncaaclearinghouse.net) and <http://naiaeligibility.com>. Interested athletes should refer to the NCAA core class requirements when planning coursework.

## MISSOURI STATE HIGH SCHOOL ACTIVITIES ASSOCIATION

MSSHAA & SHS require that any student participating in sports, music, FFA, prom, dances etc., must be enrolled in a minimum of 3.0 credits (6 classes) during the semester of participation and must have earned 3.0 credits the previous semester. Because winter sports/activities take place during first and second semesters, students must earn 3.0 credits both semesters in addition to the previous semester. Any student not earning 3 credits will be ineligible for participation.

## A+ PROGRAM

The A+ program currently provides tuition for students to attend Missouri Public community colleges & technical education programs. The current requirements are:

1. Attend an A+ high school for 3 consecutive years prior to graduation
2. Graduate with a 2.5 non-weighted accumulative GPA or higher; courses must be mainstream courses.
3. Graduate with 95% accumulative attendance
4. Perform 50 hours of unpaid tutoring in a school sponsored activity (12.5 hours can be job shadowing)
5. Maintain a record of good citizenship, and avoid the use of drugs and alcohol
6. 2 of 3 units of math must be Algebra I and higher
7. 2 of 3 units of science must be Physical Science and higher. Elemental Physical Science and Elemental Biology will count as one unit of science credit toward the A+ requirement
8. Beginning with the Class of 2015, all students must score Proficient or Advanced on the Algebra I, Geometry or Algebra II EOC, or score the equivalent on designated assessment.

## ADMISSION REQUIREMENTS FOR POST-HIGH SCHOOL EDUCATION

	University System & Truman State	MO 4 year Colleges**	2 Year Colleges & Technical Schools	Military
Comm. Arts	4	4	4	4
Social Studies	3	3	3	3
Math	4 Algebra I & higher	3 - 4 Algebra I & higher	3	3 - 4
Science	3 Phys. Science & higher	3	3	3
Additional Requirements	2 Foreign Languages ACT/SAT, GPA	Foreign Lang recommended ACT/SAT, GPA	Accuplacer Placement Test	ASVAB

\*\*College Admission requirements vary, please check admissions requirements with college.

### Notice of Nondiscrimination

The Smithton R-VII School District has adopted policies which affirm its compliance with applicable statutes regarding nondiscrimination on the basis of race, color, national origin, ancestry, religion, socioeconomic status, marital status, sex, age or handicapping condition. The institution is therefore in compliance with Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972 and Section 504 of the Vocational Rehabilitation Act of 1973.

Any person having inquiries concerning Smithton R-VII School District's compliance with regulations implementing the acts listed above are directed to contact the Superintendent of Schools, 736 Main Street, Smithton, MO 65233, who has been designated to coordinate the institution's efforts to comply with these regulations. Any person may also contact the Assistant Secretary for Civil Rights, U.S. Department of Education regarding compliance activities.

## SFCC ONLINE DUAL CREDIT

State Fair Community College offers online dual credit courses in many academic subjects. Students must meet the eligibility requirements of 3.0 GPA, placement test scores, and pay tuition. A listing of all the online offerings can be found on the SFCC website <http://www.sfccmo.edu/pages/1575.asp>. Students taking online courses will be scheduled into a study period in the library. Additional information on placement and scheduling can be found in the Counselor's Office. Students are responsible for their text books and any online fees.

<b>SFCC Online Dual Credit</b>		
Art Appreciation (ART 101) Intro to Biological Sciences (BIO 100) Intro to Biology with Lab (BIO 112) Human Anatomy with Lab (BIO 207) Microcomputer Applications (CAPP 125) General Chemistry I w/ Lab (CHEM 123) Music Appreciation (MUS 101)	English Composition I (ENGL 101) Creative Writing (ENGL 106) Introduction to Literature (LIT 101) American Literature (LIT 107) Intermediate Algebra (MATH 112) College Algebra (MATH 114) American/Nat'l Government (POLS 101) US History Before 1877 (HI 101)	US History Since 1877 (HI 102) World Civilization Before 1500 (HI 108) General Psychology (PSY 101) General Sociology (SOC 100) Elementary French I (FREN 101) Intermediate French I (FREN 102) Public Speaking (SPTH 101) Applied Wellness (WELL 122)

## ON SITE DUAL CREDIT

Dual-credit courses are offered through an agreement with Central Methodist University and State Fair Community College. **Students must be a junior or senior at Smithton High School with a minimum of a 3.0 grade point average and meet specified ACT or Accuplacer sub score requirements for the college level course. Students must pay tuition for dual credit and on-line classes.\*\*** The grades and credit earned will be transcribed on a college transcript and also on a SHS transcript (that will apply toward high school GPA). Students wishing to take dual credit should check with the college or university that the student plans to attend to see how dual credit will transfer. Colleges/universities will require a transcript to validate college credit. **Students must request a transcript DIRECTLY from CMU and SFCC.**

<b>On Site Dual Credit Courses</b>	<b>College Title</b>	<b>College</b>	<b>Credit</b>
Pre-calculus with Trigonometry	Analytic Trigonometry (MA 104)	CMU	1 unit, 3 credit hours, all year
College Algebra	College Algebra (MATH 103)	CMU	½ unit, 3 credit hours, 1 <sup>st</sup> or 2 <sup>nd</sup> sem.
Calculus	Calculus & Analytical Geometry (MATH 118)	CMU	1 unit, 5 credit hours, all year
Statistics	Statistics & Probability (MATH 106)	CMU	½ unit, 3 credit hours, 2 <sup>nd</sup> sem.
College Composition I	English Composition I (ENGL 101)	SFCC	½ unit, 3 credit hours, 1 <sup>st</sup> sem.
College Composition II	English Composition II (ENGL 102)	SFCC	½ unit, 3 credit hours, 2 <sup>nd</sup> sem.
English Literature	Introduction to Literature (LIT 101)	SFCC	½ unit, 3 credit hours, 1 sem.*
Music Appreciation	Music Appreciation (MUS 101)	SFCC	½ unit, 3 credit hours, 1 sem.
General Psychology	General Psychology (PSY 101)	SFCC	½ unit, 3 credit hours, 1 sem*
Human Biology	Human Biology (BIO 103)	SFCC	1 unit, 3 credit hours, all year
History Before 1877	History Before 1877 (HIST 101)	SFCC	½ unit, 3 credit hours, 1 sem
History Since 1877	History Since 1877 (HIST 102)	SFCC	½ unit, 3 credit hours, 1 sem

**\*Possibility of being offered year long**

\*\*Depending on the course there may be online fees and/or text book fees.

# COURSE DESCRIPTIONS

\*denotes weighted classes

## ENGLISH (4 units required)

### English I

The basics of this required course advance the fundamentals of literature, written communication, and oral communication. The four literary genres (short story, drama, novel, and poetry) give the student a variety of reading experiences. Grammar, usage, and vocabulary will be studied, stressing application in the students' writing. Composing complete sentences and well-structured paragraphs, as well as experimenting with journal, report, business, and creative writing, serve as the essential parts of the composition program. Various individualized, dramatic, and oral presentations complete the outline of this course.

#### Required

1 unit

### English II

A major emphasis in this course is on written communication, including a review of Standard English writing conventions, usually on a weekly basis. The study of writing focuses on good sentence structure and effective expression of ideas. A writing journal is used throughout the year. Also explored in this course are forms and ideas in literature. At least one novel is studied in class, and an outside reading program is required. Reading, grammar, mechanics, usage, and vocabulary skills are developed through the literature and composition units. At least one oral presentation is required during the course

#### Required

1 unit

### English III

English III continues the study of literature with a primary focus on American authors. Students will read and analyze literary pieces from many genres (short story, novel, drama, poetry, nonfiction) on literal and interpretive levels. In order to further develop writing skills, students will write both critical and creative papers. Students will continue to develop their grammar, mechanics, vocabulary, and usage skills, as well as their verbal and written reasoning skills.

#### Required

1 unit

### English IV

English IV provides skill development in reading, writing, and critical thinking for twelfth grade students who are considering attending a four-year college, a junior college, other post-secondary training programs, military service, or are entering a career field. The first semester focuses on increasing reading and writing skills through a study of literature. The second semester focuses on career and college readiness through a study of technical reading and writing.

**Prerequisite:** Communication Arts I, II, and III

#### Seniors

1 unit

### English Composition I (ENGL 101)\*

This class emphasizes planning, drafting and revising along with critical thinking and information management skills and their role in communicating concise written ideas to a range of audiences for a variety of purposes. Basic computer skills are essential for successful completion. Emphasizes planning, drafting and revising along with critical thinking and information management skills and their role in communicating concise written ideas to a range of audiences for a variety of purposes. Basic computer skills are essential for successful completion. **This course may be taken for three hours of college credit through State Fair Community College.**

**Must have a 3.0 GPA and a 20 English ACT sub test score by time of enrollment.**

**Prerequisite:** English I, II, and III with a "B-" minimum or teacher recommendation.

#### Seniors

½ unit

### English Composition II (ENGL 102)\*

This class combines the process writing techniques acquired in ENGL 101 with higher-order reasoning and advanced research skills to communicate ideas in meaningful and effective writing. Basic computer skills are essential for successful completion. **This course may be taken for three hours of college credit through State Fair Community College. Must have a 3.0 GPA and a 20 English ACT sub test score by time of enrollment.**

**Prerequisite:** English Composition I (ENGL 101) with a "C" or higher

#### Seniors

½ unit

## ENGLISH ELECTIVES

### **Introduction to Literature (LIT 101)\***

This course focuses on the study of fiction, poetry and drama. Special attention is given to literary terminology and critical analysis. Recommended but not required as a preparation for other courses in literature. **This course may be taken for three hours of college credit through State Fair Community College. Must have a 3.0 GPA and a 20 English ACT sub test score by time of enrollment.**

**Prerequisite:** English I, II, and III with a "B-" minimum or teacher recommendation.

**Juniors or seniors**

½ credit

## FOREIGN LANGUAGE

**Foreign language is not required for high school graduation;** however, many four year colleges/universities recommend 2 units of a foreign language for college entrance.

### **Spanish I**

This introductory course is designed for students with little or no previous study of Spanish. The students will engage in basic communication skills daily. This course teaches language patterns and vocabulary. Repetition and comprehensible input are important components of this course. Focus is on all four language skills listening, speaking, reading and writing. Culture is an integral part of the course and is introduced through the use of media, games, adapted readings and class discussions. In addition to written tests and quizzes, students may also be assessed by means of aural activities. Homework assignments are an integral part of this course; they reinforce concepts/skills introduced and explored in class, which enable students to participate in class in a meaningful way. Completion of homework assignments is a must. Active participation is required.

**Open to all grade levels**

1 unit

### **Spanish II**

Students continue to further develop and improve listening, speaking, reading and writing skills. The students will engage in basic communication skills daily. Emphasis is placed on comprehension of Spanish, as well as, reading and writing practice in the target language using a variety of activities incorporating familiar vocabulary and structures. Supplementary materials are introduced to enhance language use. Aspects of Spanish culture are included through the use of media, games, and adapted readings and in small or large group discussions. In addition to written/oral tests and quizzes, students are assessed using a variety of formats: oral dialogues, presentations, written compositions and other means. Homework assignments are an integral part of this course as they not only reinforce concepts and skills that are introduced in class, but also enable students to participate in class discussions. Completion of homework assignments is essential to success in this course. Active participation is a must!

**Prerequisite:** Spanish I

**Sophomores, juniors or seniors**

1 unit

### **Spanish III**

Students continue to develop and increase their language acquisition in Spanish through the study of language structures. The students will engage in basic communication skills daily. Students will study language structures and vocabulary through reading, listening, speaking, and writing activities. Aspects of contemporary Spanish and Hispanic cultures are emphasized in this class. Students will be assessed using a variety of methods including: oral and written tests and quizzes, classroom discussions and interactive activities, oral/aural assignments, presentations, dialogues, short compositions, and other displays. Completion of homework assignments is essential to success in this course. Active participation is a must!

**Prerequisite:** Spanish II

**Juniors or seniors**

1 unit

### **Spanish IV**

The students have the opportunity to further develop, improve and refine their listening, speaking, reading and writing skills. Emphasis continues to be placed on aural skills with additional emphasis on reading and writing in the target language. Supplementary materials are implemented to enhance language use. Students experience multiple opportunities to demonstrate their proficiency in Spanish in different contexts. Aspects of culture are emphasized through cultural readings, media, games, and class discussions. Assessment of student performance is identified through written tests and quizzes. In addition, students may also be assessed by means of oral tests, spoken dialogues, presentations, short compositions and other displays. Homework assignments are an integral part of this course. They reinforce concepts/skills introduced and explored in class, which enable students to participate in class discussions and activities in a meaningful way. Completion of homework assignments is essential to being successful in this course.

**Prerequisite:** Spanish III

**Seniors**

1 unit

## **English as a Second Language**

The development of effective communication in the English language will be pursued. Students will continue to develop skills in the English language and culture through various media and hands on learning activities. A continued development of grammar and communication skills will be pursued. Lectures and instruction will be given and students will participate in written and oral practice to learn the English language. Emphasis will be on speaking, reading, listening and writing with the program tailored to the needs of the student. Study time may also be given to work on subjects the students might need additional help with or additional time to complete.

### **Open to all grade levels**

1 unit

## **SOCIAL STUDIES** **(3 units required)**

### **World History**

World History is a required **one-year** course. This course spans a vast amount of time from early humans to modern times. This timeline will include the study of various cultures, religions, politics, economics, geography, and major world events that have impacted humanity. Many individuals who had crucial impacts throughout history will also be studied. Students at the conclusion of this course will have been given the opportunity to build a solid foundation of knowledge and an understanding of world history. The goal is to evaluate history and draw logical conclusions (cause/event), not the memorization of facts. A student's grade is largely based on various assessments (essay tests, multiple choice tests, writing projects, research papers, etc.), but class work and homework are also incorporated.

### **Freshmen (Required)**

1 unit

### **American History**

American History is a required **one-year** course. This course is a study of American History starting with Reconstruction through to the present day. The students will develop global awareness and a basic understanding of American democratic government and its role in the world through reading, class discussion and projects dealing with the people, geography, documents, government, culture and ideas of American History. Students must pass both semesters in order to receive one full credit with ½ a credit per semester. This course is a requirement for graduation.

### **Sophomores (Required)**

1 unit

### **Government**

Government is a required **semester-long** course. This course is the third step in meeting the three social studies credit requirements. All of the various branches of government are studied. Government covers the basics of individual responsibilities to the future happenings at home, school, city, county, state, federal, and even international levels. All students are required to completed this course with a passing grade (60% or higher) and pass both a Federal and Missouri Constitution test to meet graduation requirements. The course will examine the development of the American democratic system, the role of government and political parties, and voting rights and responsibilities. Emphasis will be placed on the three branch system of government (legislative, executive and judicial) and the Constitutions of the United States and Missouri.

### **Juniors (Required)**

½ unit

### **You & the Law**

You and the Law is a study of past and present American legal issues and their significance in American life. An emphasis will be placed on Supreme Court Decisions. The students will develop civic awareness and a basic understanding of legal institutions and their influence through reading, class discussion and projects dealing with issues that affect all citizens in a free, democratic society.

**Prerequisite:** American History

### **Juniors or seniors**

½ unit

### **Ancient World**

The Ancient World is a Social Studies Elective that offers a comprehensive view of the history of the ancient Mediterranean, from the rise of Sumer to the Fall of Rome. This study would include lessons on family life, gender relations, class structures, religion, art, architecture, leisure, philosophy, science and government systems. It would focus on the development and evolution of these areas of life as the foundation for Western Civilization. Whenever possible, connections will be made to emphasize the roots of modern American society and government as they appear in the Modern World.

### **Juniors or seniors**

½ unit

## **Philosophy**

Philosophy is a Social Studies Elective that explores central themes of philosophy from ancient times to the present. Although evolving and contrasting concepts of ethics and the nature of existence will be examined, the central theme of the class will revolve around the evolution of the relationships amongst individuals, groups and systems of governance.

**Juniors or seniors**

½ unit

## **Religions and Ethics**

Religions and Ethics is open to juniors and seniors. This class will examine the five major world religions: Christianity, Judaism, Islam, Buddhism, and Hinduism. Other world religions may be covered as time permits. Current societal conflicts and their ethical implications on society will also be discussed.

**Juniors or seniors**

½ unit

## **Missouri History**

Missouri History is a study of the history of human settlement in Missouri from the native inhabitants to the modern day with an emphasis on the development of the state's culture, government and population. The students will develop state awareness and a basic understanding of state institutions through reading, class discussion and projects dealing with the people, geography, documents, government, culture and ideas of Missouri history.

**Prerequisite(s):** American History

½ unit

## **Current Issues**

Current Issues is a course that is designed to give the students a practical understanding of the issues that shape their world. The course will enable the student to analyze current social, political, economic, and international problems and adopt logical solutions and conclusions to these problems based on research and discussion.

½ unit

## **US History Before 1877 (HIST 101)\***

In this course, students will survey of the political, economic and social development of the United States from its European origins through the Reconstruction Process. A study of the Missouri Constitution is included to meet the state's requirements in Senate Bill No. 4. **This course may be taken for three hours of college credit through State Fair Community College. Must have a 3.0 GPA and a 20 English ACT sub test score by time of enrollment.**

**Prerequisite:**

**Juniors or seniors**

½ unit

## **US History Since 1877 (HIST 102)\***

In this course, students will survey of the political, economic, social, and military development of the United States from 1877 to the present. A study of the Missouri Constitution is included to meet the state's requirements in Senate Bill No. 4. **This course may be taken for three hours of college credit through State Fair Community College. Must have a 3.0 GPA and a 20 English ACT sub test score by time of enrollment.**

**Prerequisite:**

**Juniors or seniors**

½ unit

## **Psychology (PSY 101)\***

This course is an introduction to the scientific study of behavior and mental processes. Includes a survey of historical and current theories, theorists and perspectives in psychology. Goals include increasing critical thinking and intellectual curiosity about psychological phenomenon and provides a basis for further study in the field. Topics include neurology, sensation and perception, consciousness, learning, psychometrics, personality development, and mental illness and wellness. **This course may be taken for three hours of college credit through State Fair Community College. Must have a 3.0 GPA and a 20 English ACT sub test score by time of enrollment**

**Juniors or seniors**

½ unit

## **Advanced Psychology \***

This course is a continuation of Psychology 101. It is not dual credit but delves deeper into the different aspects of Psychology.

½ unit

## MATHEMATICS (3 units required)

### **Pre-Algebra**

Pre-Algebra is a non-traditional mathematics course emphasizing conceptual learning through investigation and practical application. Beginning with a review of mathematical properties, order of operations, & problem solving. Some of the problem-solving emphasis that they would see in Algebra I is replaced by an increased emphasis on skills practice. Topics covered in this course include operations involving rational numbers, solving equations, proportional reasoning and probability. Students will also investigate the various representations of functions including equations, tables, graphs, and verbal descriptions and explore the relationship those functions have with one another.

**Prerequisite:** 8<sup>th</sup> grade Math (C or below) and MAP score of Basic or Below Basic

1 unit

### **Algebra I**

This course is a comprehensive algebra course designed for students who have successfully completed Pre-Algebra. It lays the foundation for success in Algebra II and also College Algebra. Algebra is the language through which most of mathematics is communicated. The basic concepts of Algebra I include: evaluating algebraic expressions, solving first & second degree equations and inequalities, systems of equations, factoring polynomials, simplifying expressions involving exponents, graphing functions, basic statistical measures, and simplifying rational & irrational expressions including radicals. Students will be required to take the Missouri End-of-Course Assessment in the spring of the academic year.

**Prerequisite:** Pre-Algebra C or above & MAP score of Proficient or Advanced

1 unit

### **Geometry**

Geometry is the mathematics of the properties, measurement, and relationships of points, lines, angles, surfaces, and solids. The basic concepts of Geometry include: judging the reasonableness of numerical computations & their results, using inductive and deductive reasoning to establish the validity of geometric conjectures, proving theorems, using and applying construction & the coordinate plane to represent transformations of objects, examining triangle congruency & similarity, drawing or using visual models to represent and solve problems, solving problems of angle measure, and determining the surface area and volume of geometric figures.

**Prerequisite:** Algebra I or teacher approval

1 unit

### **Geometry Concepts**

Geometry is the mathematics of the properties, measurement, and relationships of points, lines, angles, surfaces, and solids. The topics covered in Geometry Concepts are very similar to those in traditional Geometry, but with an emphasis on understanding concepts and developing skills through hands on activities, discussion, and visual models. The basic concepts include: understanding the basics of geometry and geometric structures, using real numbers & various models to solve problems, using & applying constructions and the coordinate plane to represent transformations of objects, finding triangle congruency & similarity, judging the reasonableness of numerical computations and their results, draw and using visual models to represent and solve problems, solving problems of angle measure, and determining the surface area & volume of geometric figures.

**Prerequisite:** Algebra I (C or D)

1 unit

### **Algebra II\***

Algebra II is an extension of all topics included in Algebra I as well more emphasis on polynomial functions, complex numbers, exponents, matrices, sequences & series, logarithms, graphing, and elementary analytic geometry. This course emphasizes facility with algebraic expressions & equations, especially linear, quadratic, absolute value, & step functions, powers & roots, and complex fractions. Scientific and graphing calculators will be used throughout the course. This course lays the foundation for success on the ACT and in College Algebra.

**Prerequisite:** Algebra I and Geometry and teacher recommendation

**Sophomores, juniors or seniors**

1 unit

### **College Algebra (MA 103), year long\***

This course can be taken for college credit or as an extension of Algebra. The following topics are studied: Fundamental Theorem of Algebra, Binomial Theorem, combinations, sequences and series, algebraic functions, and exponential and logarithmic functions. **This course may be taken for 3 hours of college credit through Central Methodist University with the requirements that a student has a 3.0 G.P.A. and at least a 22 on the Math section of the ACT at time of enrollment.**

**Prerequisite:** Pre-Algebra (B or better) or Algebra II (C or D), ACT Math Score 20+

**Junior or seniors**

1 unit



### **College Algebra (MA 103), semester long\***

This course can be taken for college credit or as an extension of Algebra. The following topics are studied: Fundamental Theorem of Algebra, Binomial Theorem, combinations, sequences and series, algebraic functions, and exponential and logarithmic functions. **This course may be taken for 3 hours of college credit through Central Methodist University with the requirements that a student has a 3.0 G.P.A. and at least a 22 on the Math section of the ACT at time of enrollment.**

**Prerequisite:** Algebra II (B or better), ACT Math Score 20+

**Junior or seniors**

½ unit, 2<sup>nd</sup> semester

### **Statistics (Statistics & Probability---MA 106)\***

Methods for visual presentation of data, measures of central tendency, measures of variation, introduction to probability, counting methods and advanced probability, normal distribution, binomial distribution, F-distribution, inferential statistics and hypothesis testing of means, variances and correlations, linear regressions, chi-square distributions, rank sum and Spearman's rank testing.

**Prerequisite:** Grade of B or better in Algebra II and teacher recommendation. **This course may be taken for 3 hours of college credit through Central Methodist University with the requirements that a student has a 3.0 GPA and at least a 20 on the Math Section of the ACT by time of enrollment. This course transfers to the University of Missouri as STAT 1300.**

**Seniors**

½ unit, 1<sup>st</sup> semester

### **Pre-calculus with Trigonometry (Analytic Trigonometry---MA 104)\***

Pre-calculus is a yearlong course offered to students in grades 11 and 12. The course includes a review of algebra topics, in-depth analysis of higher order two variable functions, sequence and series, mathematical induction proofs, and an introduction to integral calculus. More than half of the course will be devoted to the theory and application of trigonometric functions including both a unit circle and right triangle approach, solving and graphing trigonometric equations and functions, proving trigonometric identities, introduction and use of radian measure, polar forms of equations and complex numbers and vectors in 2 and 3 dimensions. This course is primarily to prepare students for Calculus and Physics at the college level. **This course may be taken for 3 hours of college credit through Central Methodist University with the requirements that a student has a 3.0 GPA and at least a 20 on the Math Section of the ACT at time of enrollment.**

**Prerequisite:** Algebra II with a B- or higher, or teacher recommendation.

**Juniors or seniors**

½ unit per semester, may be taken just 1<sup>st</sup> semester; must be taken both semesters for college credit

### **Calculus (Calculus and Analytic Geometry I---MA 118)\***

Calculus is a two-semester course emphasizing elementary analytic geometry, functions, limits, continuity, derivatives, anti-derivatives and definite integrals. All topics are covered from a theoretical and application perspective. **This course may be taken for 5 hours of college credit through Central Methodist University with the requirements that a student has a 3.0 G.P.A. and at least a 27 on the Math section of the ACT at time of enrollment.**

**Prerequisite:** Pre-calculus with a grade of "B" or higher and teacher approval.

**Seniors**

1 unit

## **SCIENCE** **(3 units required)**

### **Physical Science**

This course is designed as an introduction to Physics and Chemistry for 9<sup>th</sup> grade students through lecture, inquiry and collaborative techniques. The following topics will be introduced: matter, atomic structure, chemical reactions, motion, work force, gravity, and types of energy. Students will use labs and activities to promote the scientific method and reinforce concepts. This course is a prerequisite for Biology and Chemistry.

**Freshmen (required)**

1 unit

### **Biology**

Biology is the study of life and of the global interactions between living organisms. Topics covered include cell structure and function, stability and homeostasis, reproduction and inheritance, evolution, natural selection, ecology, and matter, energy and organization. It is the required science course for 10<sup>th</sup> grade students. Student will be required to write formal lab reports and give an oral presentation. The Biology EOC exam will account for 10% of the grade in this class.

**Prerequisite:** Physical Science

**Sophomores (required)**

1 unit

## **Zoology**

Zoology is a branch of biology that deals with the scientific study of animals. Fundamental to this science is an appreciation of animal evolution and diversity, and includes examining aspects of the morphology, development and genetics, behavior, ecology, physiology, biochemistry and molecular biology of animals.

**Prerequisite:** Physical Science, C or better in Biology

**Juniors or seniors**

1 unit

## **Chemistry\***

This course is designed to introduce the students to the nature of chemistry and chemical concepts by using both lecture and laboratory techniques. Students taking this class should have already taken Physical Science and Biology and should have a strong foundation in mathematics. This course uses extensive labs and research activities to increase a chemistry knowledge to help any student looking toward higher education. This course is highly recommended for any student who desires a medical or science based degree.

**Prerequisite:** Physical Science, Biology, Algebra I & II, B or better in Biology and Algebra I

**Juniors or seniors**

1 unit

## **Environmental Science**

Environmental Science is the study of the impact of humans on the environment. The goals of environmental science focus on how we use natural resources and understanding how our actions alter our environment. This course will incorporate information from all scientific fields to create informative projects and presentations on the health of the environment and different ecosystems.

Everything can impact the environment from the Greenhouse Effect, overpopulation, and toxic waste and this course studies it all.

**Prerequisite:** Physical Science, Biology

**Juniors or seniors**

1 unit

## **Astronomy**

The study of space, Earth and its interactions. It will include the history of space exploration.

**Prerequisite:** Physical Science and Biology

**Juniors or Seniors**

1 unit

## **Forensic Science**

The Forensic Science course is designed to build upon science concepts and applies science disciplines of biology, anatomy, chemistry, and physics to solving crime scenes. This course will explore the fundamental principles and procedures employed in the investigation processes of crime scenes.

**Prerequisite:** Physical Science, Biology

**Juniors or Seniors**

1 unit

## **Human Biology (BIO 103)\***

This course is an introduction to the structure and function of the human body and its systems. Topics include biochemistry, organization, homeostasis, structural maintenance of cells, tissues, organ systems of the human body, and ecology and the human influence on the biosphere. **This course may be taken for three hours of college credit through State Fair Community College, the second semester online. Must have a 3.0 GPA and a 20 English ACT sub test score by time of enrollment.**

**Prerequisite:** Physical Science, Biology

**Juniors or seniors**

1 unit

## **FINE ARTS** **(1 unit required)**

### **Art I**

Art I is the basic studio orientation course using the elements and principles of art. Students tackle a number of projects that introduce and reinforce the principles and elements of art, putting into practice the concepts of art's building blocks and design qualities. Art I juxtaposes artwork to the spoken and written language. Students learn art vocabulary to explain perceptions about, evaluate and criticize artworks.

**Open to all grade levels**

1 unit

### **Art II**

The course is designed for students who have completed Art I. Students will apply what has already been learned and will have opportunities to acquire additional knowledge and skills, analyze, and be problem solvers. Areas or strands addressed are: Product/Performance, the Elements and Principles of art, Artistic Perceptions, Interdisciplinary Connections, and the Historical and Cultural Context.

**Prerequisite:** Student must earn a C- or better in Art I  
**Sophomores, juniors, or seniors**  
1 unit

### **Art III**

Art III is one of Smithton's advanced art classes. Students tackle a number of projects that art beyond basic principles and elements of art. Students practice the concepts of art's building blocks and design qualities. Art III juxtaposes artwork to the spoken and written language. Students learn art vocabulary to explain perceptions about, evaluate and criticize artworks.

**Prerequisite:** Art I & Art II

**Juniors or seniors**

1 unit

### **Art IV**

This course is one of Smithton's advanced art classes. Students tackle a number of projects that art beyond basic principles and elements of art. Students practice the concepts of art's building blocks and design qualities. Art IV compares artwork to the spoken and written language. Students learn art vocabulary to explain perceptions about, evaluate and criticize artworks.

**Prerequisite:** Art III

**Seniors**

1 unit

### **Band**

High School Band is a performing ensemble that performs as a concert band, a marching band, and a pep band. Students will have instruction in general music performance, performance techniques on their instrument(s), music theory, music history, marching fundamentals, and concert and performance etiquette. The band will perform at local concerts, concert band festivals, marching festivals and competitions, basketball games, pep assemblies, and other events as scheduled by the director. Some students will perform solos and small ensembles for music contests. Performance and rehearsal attendance, some of which will be before or after school, are required of all members as part of their grade for the class. This class is offered as a full year class. Exceptions can be made at the discretion of the director.

**Prerequisite:** Successful completion of Junior High Band or permission of the teacher (an audition may be required)

**Open to all grade levels**

1 unit

### **Legacy**

This choir is the select choir of Smithton High School and is selected through an audition process. Legacy is a mixed ensemble that studies and performs advanced choral literature. The choir functions as a competitive show choir. Students will be required to purchase certain performance attire for competitions. The choir will perform numerous times throughout the year. All performances are required. Students will learn concepts of vocal and choral technique, music theory, sight-reading, music history, and will be provided opportunities for creative self-expression through performance of a variety of choral literature. **Extra rehearsal time before or after school is scheduled in order to bring performances to a quality level.**

**Prerequisite:** Audition with director

**Open to all grade levels**

½ unit (must be 1<sup>st</sup> semester) or 1 unit

### **Concert Choir**

This choir is open to students with a desire to sing and develop their voice through choral performance. Students will learn concepts of vocal and choral technique, music theory, sight-reading, music history, and will be provided opportunities for creative self-expression through performance of a variety of choral literature. Students are encouraged to participate in solo and/or ensemble singing and District and State Choir auditions, as well as auditions for District and State choir. The choir will give numerous concerts during the year. Students are required to participate in all performances.

**Open to all grade levels**

1 unit

### **Fundamentals of Music**

This course is based primarily on the fundamentals of music theory such as melody, harmony, rhythm, dynamics, etc. Students of any level will be able to begin or improve skills on the piano keyboard. Sight singing and ear training as well as composing will also be incorporated into this music class. Advanced students will be given opportunity to accompany for contest and concerts. This class will also give opportunity for students to sing with the Concert Choir, especially in the event that students can not fit that class into their schedule (primarily CTC students).

**Open to all grade levels**

1 unit

### **Music Appreciation (MUS 101)\***

This course provides an overview of knowledge of the basic elements of music, the important musical masterpieces of various eras and the significant composers in musical history. A portion of the course time is devoted to listening to recordings and viewing supporting video footage of selected composers and performers. **This course may be taken for three hours of college credit through State Fair Community College. Must have a 3.0 GPA and a 20 English ACT sub test score by time of enrollment. Sophomores, juniors or seniors**

1 credit

## **PRACTICAL ARTS** **(1 unit required)**

### **BUSINESS**

#### **Personal Finance**

Understanding and managing personal finances are key to one's future financial success. By learning how to take control of your money as a teenager, you can potentially avoid making huge money mistakes down the road. 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 satisfies the ½ unit required for graduation and can count as ½ of the required practical art unit.** As a member of this class, you are eligible for FBLA membership.

**Sophomores (required)**

½ unit

#### **Business Tech -**

This course 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.

Sophomore, Junior or Senior

1 unit

#### **Graphic Design -**

Students develop proficiency in using graphic arts/desktop publishing software to create a variety of business publications such as flyers, brochures, newsletters, etc.

½ unit

#### **Medical Administrative Assistant -**

A program that prepares individuals to perform the duties of special assistants and personal secretaries for practicing physicians and nurses, health care facilities and services administrators and other health care professionals. Includes instruction in business and medical communications, medical terminology, principles of health care operations, public relations and interpersonal communications, software application, record-keeping and filing systems, scheduling and meeting planning, applicable policy and regulations and professional standards and ethics.

Juniors or Seniors

1 unit

#### **Desktop Publishing**

This area of instruction provides content for employment in career areas which include desktop publishing skills. Students develop proficiency in using graphic arts/desktop publishing software to create a variety of publications such as schedules, event programs, flyers, brochures, and newsletters. As a member of this class, you are eligible for FBLA membership.

**Prerequisite:** Computer Applications and teacher recommendation preferred

**Juniors or seniors**

1 unit

#### **Web Design**

Do you want to learn how to create your own web sites or have a very important job skill? This year-long course is an introduction to designing web sites. You will apply appropriate design, color, and art; create graphics, use of tables and nested tables to display information, create forms containing advanced input types and attributes, text areas, and advanced lists; and learn the basics

of how to debug an HTML document. You will maintain the school's web site by updating photos, activity information, and many other items. Students will aid the instructor in the development and maintenance of Smithton pages.

**Prerequisite:** Graphic Design

**Juniors or seniors**

1/2 unit

### **Accounting I**

This course is designed to build a basic understanding of manual and automated 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 tasks. As a member of this class, you are eligible for FBLA membership.

**Juniors or seniors**

1 unit

### **Accounting II**

This course is designed to help students acquire a more thorough, in depth knowledge of accounting procedures and techniques utilized in solving business problems and making financial decisions. Students will develop skills in analyzing and interpreting information common to partnerships and corporations, preparing formal statements and supporting schedules, and using inventory and budgetary control systems. Computer applications should be integrated in each appropriate instructional unit. As a member of this class, you are eligible for FBLA membership.

**Prerequisite:** Accounting I

**Seniors**

1 unit

## **FAMILY AND CONSUMER SCIENCES**

### **Career Development/Entrepreneurship**

This course introduces individuals to career opportunities and/or career pathways in family consumer sciences and human services-related occupations/careers. It explores the development, marketing, and management functions associated with owning and operating a family consumer sciences and human services-related business. Instruction emphasizes career development and preparation components; balancing family life and entrepreneurial ventures; hands-on activities in entrepreneurial concepts; and use of technology. As a member of this class, you are eligible for FCCLA membership.

**Sophomores, juniors or seniors**

1 unit

### **Foods, General**

This can be any course that focuses on the general study of cooking and related culinary arts and that may prepare individuals for a variety of jobs within the food service industry. Courses should include instruction in food preparation; cooking techniques, equipment operation and maintenance; sanitation and safety. Any courses developed need to fit into the LEA's Program of Study for Career Clusters and focus on Technical Skills Attainment.

**Sophomores, juniors or seniors**

½ unit

### **Nutrition & Wellness**

This course prepares individuals to understand the principles of nutrition; the relationship of nutrition to health and wellness; the selection, preparation, and care of food; meal management to meet individual and family food needs and patterns of living; food economics and ecology; optimal use of the food dollar; understanding and promoting nutritional knowledge; and application of related math and science skills.

**Sophomores, juniors or seniors**

½ unit

### **Child Development I**

This course focuses on the intellectual, social, emotional, and biological development of children. It includes instruction in parent-child relations, parenting practices, special needs of children, parental and environmental influences on child development, external support services, and related public policy issues.

**Sophomores, juniors or seniors**

½ unit

### **Child Development II**

This course provides advanced study in child development and guidance, including the physical, social, and intellectual development of children. Actual experience in supervising children provides the opportunity to improve parenting skills, explore careers related to child development, and identify general employment skills.

**Prerequisite:** Completion of Child Development and teacher approval

**Sophomores, juniors or seniors**

½ unit

### **Housing and Interior Design**

Students study the behavioral, social, economic, functional, and aesthetic aspects of housing, interiors, and other built environments. The course includes instruction in analyzing, planning, designing, furnishing, and equipping residential, work, and leisure spaces to meet user needs and the study of related public policies. As a member of this class, you are eligible for FCCLA membership

#### **Open to all grade levels**

½ unit

### **Apparel & Textiles (Fashion Fundamentals)**

This semester course is designed to prepare individuals to understand the social, psychological and physiological aspects of clothing and textiles; the nature acquisition and use of clothing and textile products; the selection, construction, maintenance, and alteration of clothing; and the effect of consumer choices on the individual and family as well as the clothing and textile industries. The emphasis of this class will be on fashion merchandising. Sewing labs included. Students will be required to purchase supplies for their sewing project.

#### **Open to any grade level**

½ unit

## **AGRICULTURAL EDUCATION**

### **Agricultural Education Department Guidelines**

1. All freshman and first year agricultural students must enroll in Agricultural Sciences I. Only under extreme circumstances, and with instructor approval, can a student be enrolled in a different class.
2. If a student is an upper level student wanting to enroll for the first time, they must take Agricultural Science I, but they can also enroll in upper level classes. Exceptions will be made with instructor approval.
3. Students enrolled in agricultural classes will be required to have an SAE, keep a record book, and be involved in FFA. This is because these are intra curricular activities that are required within the curriculum. For some reason, if a student cannot afford involvement, help will be given to them so they will be able to be involved.

### **Agricultural Science I**

This entry level/Freshman agricultural class covers topics such as careers in agriculture, leadership/FFA activities, beginning record keeping, introduction to animal nutrition and production, introduction to agricultural mechanization, and supervised agricultural experience. SAE and record keeping are required, and FFA involvement is recommended.

**Primarily freshmen level. Sophomores, juniors or seniors may take this course with approval from instructor**

1 unit

### **Agricultural Construction**

This hands-on course is designed to teach students the basics of metal fabrication. Large lab projects will be constructed using advanced agriculture mechanics skills. Students will learn power tool usage, arc welding, MIG welding, oxy acetylene cutting, as well as, planning and fabrication of projects. FFA leadership is also an important component to this course. SAE and record keeping is required, and FFA involvement is recommended.

**Prerequisite:** Ag Science 1

**Juniors or seniors**

1 unit

### **Advanced Animal Science**

This class concentrates on the practical application of science based principles to food animal production, animal nutrition, animal products, food science, animal health, parturition, small animal management, record keeping and agriculture leadership. In addition each student will receive training in public speaking and parliamentary procedure, as well as be given opportunities to participate in leadership and skill contests. SAE, record keeping & FFA involvement are required.

**Prerequisite:** Ag Science 1

**Juniors and seniors**

½ unit

### **Advanced Plant Science**

This course is designed for students interested in the growing and tending of plants and also the care and raising of animals. Instruction includes evaluation of grassland, soils and wildlife along with plant identification. The class also includes crop judging, soil surveying and animal reproduction and nutrition. SAE, record keeping & FFA involvement are required.

**Prerequisite:** Ag Science 1

**Sophomore, Juniors and seniors**

½ unit

**Ag. Business**

**Prerequisite:** Ag Science 1  
Sophomore, Junior or Senior  
1 unit

**Veterinary Science**

**Prerequisite:** Ag Science 1  
Sophomore, Junior or Senior  
1 unit

**Conservation of Natural Resources**

This course prepares students for activities in the conservation and/or improvement of natural resources such as oil, water, air, forests, fish and wildlife for economic and recreational purposes. SAE, record keeping & FFA involvement are required.

**Prerequisite:** Ag Science 1

**Sophomore, Juniors or seniors**

½ unit

**Counts towards the 3 for 1 General Life Science Credit (statewide agreement)**

**\*Students may take Ag I and two advanced course (excluding Ag Construction) and be granted one embedded Science credit.**

**These credits are NOT accepted by NCAA for Division I sports.**

**HEALTH & PHYSICAL EDUCATION**

**(1 unit required)**

**Starting in the 2016-2017 school year, all freshmen are required to take one year of PE. Additionally, students are limited to one PE class per year.**

**Health**

Health is a course that covers the three main areas of health in our society: physical, emotional, and social health. This class will cover all areas of health that are required by the Missouri Department of Education and Smithton High School graduation requirements.

**Sophomores (required)**

½ unit

**Physical Education**

Physical Education places emphasis on sportsmanship, basic fundamental skills, etiquette, rules, and terminology as well as the development of skills in a variety of sports. The course is designed to encourage the continuation of exercise throughout a student's lifetime as well as involve students in daily physical activity. The following sports are included in Physical Education: Volleyball, Badminton, Basketball, Pickle Ball, Soccer, Softball, Lacrosse, Speedball, Kickball, and Wiffle ball.

**Open to any grade level**

½ unit per semester

**Team Sports**

Students will gain the knowledge necessary to become an informed sports participant and spectator. Team Sports will promote cooperation among peers, sportsmanship, and an appreciation for various sports. The following sports are included in Team Sports: Volleyball, Basketball, Ultimate Football, Flag Football, Soccer, Softball, Speedball, and Lacrosse.

**Open to any grade level**

½ unit per semester

**Lifetime Sports**

In Lifetime Sports, students will be introduced to sports and activities, which promote fitness and leisure time activity for life. Some of the sports included are Tennis, Badminton, Pickle Ball, Dance, Aerobics, Bowling, Shuffleboard, and Eclipse Ball.

**Open to any grade level**

½ unit per semester

## ELECTIVES

### **Yearbook**

Smithton's yearbook staff is responsible for the school's annual and Homecoming program. The purpose of the class is to incorporate technology into publication.

#### **Open to any grade level**

1 unit

### **Photography**

The class stimulates and heightens the understanding, techniques of camera settings associated with photography. Course introduces students to photography's exposure triad, composition and the use of Photoshop. The program requires the use of a SLR Digital Camera (personal or school owned).

This course we will explore digital photography and its relationship to fine art. Students will be given lectures, allocated writings and photography assignments. Students are expected to produce art work and will participate in class discussion to better understand the physical, conceptual and theoretical characteristics of the electronic media as it pertains to art and art making. Emphasis will be placed on the students' development and understanding of the importance of quality image photography.

#### **Open to any grade level**

1 unit

### **Library Aide**

Aides assist librarian in the library with various activities. Credit is pass/fail and does not count in the G.P.A. **Students may enroll in only one office/library/tech aide per year. Must have a good attendance record.**

#### **Juniors, Seniors**

½ unit per semester

### **Office Aide**

Aides assist in the high school office with various activities. Any student interested in being an aide must have signed permission from the principal's secretary before enrolling in the class. Credit is pass/fail and does not count in the G.P.A. **Students may enroll in only one office/library/tech aide per year. Must have a good attendance record**

#### **Seniors**

½ unit per semester

### **Tech Aide**

Student will work with the Technology Coordinator and aide in maintenance of the network, computer systems, and computer applications. Much learning will come from hands on experience as students learn wiring techniques, Installation procedures, upgrading/updating, and maintenance and inventory methods. Students will perform a wide range of tasks, from making simple cables to maintaining Active Directories on Window servers. **Students may enroll in only one office/library/tech aide per year. Must have a good attendance record.**

#### **Juniors or seniors**

½ unit per semester

### **Cadet Teaching**

This course is intended for seniors interested in exploring Education as a future career. Cadet teachers assist in the classroom with various activities. Students are expected to keep a daily journal and teach a lesson once per quarter. . Must have a 95% attendance rate and a 2.5 GPA. Students may use choose to use this time towards A+ hours instead of receiving elective credit toward graduation. **Any student interested in being a Cadet Teacher must complete an application from the counselor prior to enrollment.**

#### **Seniors**

½ unit per semester

### **Work Study**

In addition to the Dual Credit policy, students may attend work study after their sixth semester if they work a minimum of ten hours per school week, excluding weekends. Students must provide proof of employment to a non-family position during the first five days of the semester to obtain work study status. To participate in extra-curricular activities the student must be enrolled in a schedule that would produce 2.5 credits per semester. To ensure graduation, the student must be enrolled in twice the number of classes needed for graduation. **Application must be obtained from School Counselor prior to placement in course.**

#### **Senior on track to graduate**

1.5 unit per semester



## **SFCC/CTC**

State Fair Career & Technology Center is located on the State Fair Community College campus in Sedalia, Missouri. It is one of four area schools in Missouri that is affiliated with a community college. SFCTC offers training to high school juniors and seniors in eight technical training programs. The program options currently include Auto Mechanics, Building Trades, Child Care Careers, Computers/Electronics, Graphic Arts, Health Occupations, Machine Tool, and Welding. An Alternative Education program is also available to assist students with credit recovery.

### **Juniors or seniors**

1 ½ elective units per semester

## **CAREER PATHS & CLUSTERS**

Students use career paths and clusters to plan and prepare for post-high school training and careers. Each student will develop a personal plan of study focused on a particular career cluster; examples of a program of study template for each career cluster can be found in this career and educational planning guide. By the ninth grade, a student will choose a career path/cluster by considering personal interests, personalities, and strengths. Then the student will develop a plan of study by selecting courses which are relevant to the occupations in the career cluster. A student's course of study may reflect a general area of interest such as health services, or it may concentrate on a more specific occupational goal such as registered nurse. By using the programs of study templates contained in this guide, a student will see which electives or BTEC courses would fit the career goal, and the student will be able to prepare the personal plan of study. This plan of study will be revisited yearly and used in planning post-high school goals. A career path/cluster choice is not a permanent commitment. As students mature and have new experiences, they will learn new things about themselves and may want to change their personal plan of study. If a student decides on a new career focus, it should be discussed with the counselor, so the student's plan of study may be adjusted according to the new career direction.

## **DESCRIPTION OF SIX CAREER PATHS**

### **Arts & Communications**

Are you a creative thinker? Do you consider yourself to be imaginative and innovative? Do you like doing things that are original? This pathway prepares students for occupations related to the humanities and the performing, visual, literary, and media arts.

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

Do you like being a leader, organizing people, and planning activities? Do you like working with facts or numbers? Do you enjoy carrying through an idea and seeing the end product? This pathway prepares students for occupations related to the business environment.

### **Health Services**

Do you like helping people who are sick or helping people stay well? Are you interested in working in hospitals, clinics, or treatment centers? Are you curious about new diseases and how the body works? This pathway prepares students for occupations related to the promotion of health and the treatment of disease.

### **Human Services**

Are you friendly, open, and outgoing? Do others consider you understanding and cooperative? Is it important for you to try to make things better for other people? This pathway prepares students for occupations related to economic, political, and social systems.

### **Industrial & Engineering Technology**

Are you mechanically inclined? Do you like to use your hands and build things? Do you enjoy finding out how things work? Are you practical? This pathway prepares students for occupations related to the technologies necessary to design, develop, install or maintain physical systems.

### **Natural Resources**

So you like the outdoors? Are you curious about the physical world? Are you interested in plants and animals? Do you like to observe, investigate and solve problems? This pathway prepares students for occupations related to the environment and natural resources.

