

SILEX R-I SCHOOL DISTRICT



**COURSE DESCRIPTION and HIGH SCHOOL
PLANNING GUIDE
2019-2020**

TABLE OF CONTENTS

Course List.....	Pgs. 3-4
Academic Regulations (Diploma Types).....	Pgs. 5-6
Graduation Policy, Grading, and Scheduling	Pgs. 6-9
A+ Program Information	Pg. 10
Course Descriptions:	
Language Arts	Pgs. 11-13
Mathematics	Pgs. 13-16
Science	Pgs. 16-18
Social Studies.....	Pgs. 18-20
Fine Arts	
Art.....	Pg. 21
Music	Pgs. 22-23
Drama.....	Pg. 23
Practical Art	
Family & Consumer Science.....	Pgs. 23-25
Business Education	Pgs. 25-29
Agricultural Education.....	Pgs. 29-31
Physical Education.....	Pgs. 31-32
Health.....	Pgs. 32-33
Additional Electives	Pgs. 33-34
Spanish.....	Pgs. 34-35
College Courses	Pgs. 35-36
Pike-Lincoln Technical Center	Pgs. 36-38

Silex Middle and High School Course List

Physical Education

6th-Grade PE (Y)
7th/8th Grade PE (Y)
Body Conditioning (Y/S)
High School PE (Y/S)

Foreign Language

Spanish I w/ Rosetta Stone (Y)
Spanish II w/ Rosetta Stone (Y)

Language Arts

6th-Grade Contemporary Novels (E)
6th-Grade English (Y)
Seventh Grade English (Y)
Eighth Grade English (Y)
English I (Y)
English II (Y)
English III (Y)
English IV (Y)

Mathematics

6th-Grade Math (Y)
Seventh Grade Math (Y)
Eighth Grade Math (Y)
Eighth Grade Algebra (Y)
Algebra I (Y)
Algebra II (Y)
Geometry (Y)
College Algebra (Y)
College Plane Trigonometry (S1)
Statistics (S2)

Science

6th-Grade Science (Y)
Seventh Grade Science (Y)
Eighth Grade Science (Y)
Physical Science (Y)
Biology (Y)
Advanced Biology (Y)
Chemistry (Y)

Health

6th-Grade Health (E)
Health (S)

Electives

Advisement (Y)
Comm. Youth Volunteers (Y/S)
Teacher's/Office Aide (S)
FLEX Program (Y/S)
A+ Tutoring (Y/S)
6th-Grade PLTW Innovators and Makers (E)
PLTW Computer Essentials (Y)

Social Studies

6th-Grade Social Studies (Y)
Seventh Grade Social Studies (Y)
Eighth Grade Social Studies (Y)
American History (Y)
World History (Y)
Government (Y)

Music/Drama

7-12 Choir (Y)
6th-Grade Band (Y)
7th/8th Grade Band (Y)
HS Band (Y)
HS Drama (Y)

Agriculture

7th/8th Grade Agricultural Science (E)
Agriculture Science I (Y)
Agriculture Science II (Y)
Greenhouse and Landscape Mgmt. (Y)
Ag. Construction I and II (Y)
Ag. Communications (S1)
Ag. Leadership (S2)

Business

6th-Grade Keyboarding (E)
7th/8th Grade Computer Applications (E)
HS Computer Applications (Y)
Personal Finance (S)
Introduction to Business (S1)
Marketing and Advertising (S2)
Desktop Pub./Yearbook (Y)

Family and Consumer Science

7th/8th Grade FACS (E)
Foods I (S1)
Advanced Foods (S2)
Child Development I (S1)
Advanced Child Development II (S2)

Art

7/8th Grade Art (E)
Art I (Y)
Advanced Art (Y)

Vo-Tech Courses

Auto Collision Technology (Y)
Auto Services Technology (Y)
Building Trades (Y)
Computers & Networking Technology (Y)
3D Modeling and Animation (Y)
Diesel Technology (Y)
Digital Media (Y)
Health Sciences (Y)
Law Enforcement (Y)
Welding Technology (Y)

ACADEMIC REGULATIONS

Graduation Policy

Graduation diplomas and/or certificates shall be awarded to students based on completion of the following requirements in addition to taking all state-required End of Course (EOC) tests, the US Constitution test, the MO Constitution test, an American Civics test, and CPR training as required by law.

General Education Diploma

English (including English I and English II)	4
Science	3
Mathematics (including Algebra I or competency equivalent)	3
Social Studies (including American History and Government)	3
Fine Arts	1
Practical Arts	1
Physical Education	1
Health	½
Personal Finance	½
Electives	<u>7</u>
	24

Career & Tech Prep Diploma

English (including English I and English II)	4
Science	3
Mathematics (including Algebra I or competency equivalent)	3
Social Studies (including American History and Government)	3
Fine Arts	1
Physical Education	1
Health	½
Career & Technical Education*	4
Business/Computer Education**	1
Personal Finance	½
Electives	<u>3</u>
	24

College Prep Diploma

English (Including I, II, and III)	4
Science (including Chemistry, Advanced Biology or Physics)	3
Mathematics (Algebra I, Algebra II, Geometry, and higher) (Algebra I taken in 8th grade does not count as credit.)	3
Math or Science or College Level Course above core requirements	1
Social Studies (Including American History and Government)	3
Fine Arts	1
Practical Arts	1
Physical Education	1
Health	½

Business/Computer Education***	1
Foreign Language	2
Personal Finance	½
Electives	<u>3</u>
	24

- * Must be Agriculture, FACS, Business or Pike Lincoln Technical Center
- ** Requirement may be substituted with vocational class if attending PLTC
- ***Requirement may be substituted with college class(es) through Missouri Southern

Graduation Credits

All students must complete the board of education’s sequential course of study unless an alternative course of study is approved by the administration. Students need 6 credits as a freshman, 12 as a sophomore; and 18 as a junior to be on course to graduate. The units of credit required for graduation is 24.

Early Graduation

A student may be approved for early graduation after proper application is made to the administration, and subject to approval, the Board of Education and:

1. Silex High School graduation requirements have been met.
2. The student completes the eighth semester as a half or full-time student in a college or vocational school.
3. Proof of enrollment must be provided to the administration.

If all three criteria are met, the diploma will be awarded at the annual graduation exercise; however, the student will retain their original class status in all other areas (i.e. class rank, class composite, class trips, prom, yearbook, etc.). If a student only meets criteria number 1, they will not be allowed to participate in the annual graduation exercise.

Grading System

Each teacher shall evaluate each student at least five times each quarter. Efforts should be made to make these evaluations consistently and regularly throughout the quarter. Grades will be recorded numerically. These grades will be calculated at the end of each reporting period and a letter assigned in accordance with the following grading system. (Classes offered off campus or through dual enrollment may not use + or -.)

<u>Grade</u>	<u>Percentage</u>
A (Excellent)	90-100
B (Superior)	80-89
C (Average)	70-79
D (Inferior)	60-69
F (Failing)	59 and below
W (Withheld)	
NC (No Credit Due to Absences)	

As a guide in grading, the following things will be considered: daily recitations, work projects, quizzes, reports, review tests, and final examinations. Semester grades are determined by the accumulation of points over the entire semester. Final examinations will be given each semester. Students should be aware of the significance of the final exam.

An incomplete grade may be given for a class at the end of a grading period subject to the approval of the Principal or Superintendent. Approval is limited to situations where the student has been absent for such an extended period of time that is impractical to assign a grade. A letter grade must be assigned within the time frame for make-up work. After that time, a letter grade of “F” will be recorded if work is not completed satisfactorily.

Grade Point Scale

Silex High School uses a 4.000 grading scale. The following grading scale applies:

<u>Grade</u>	<u>Percentage</u>	<u>Point Value</u>
A	96-100	4.000
A-	90-95	3.667
B+	87-89	3.333
B	83-86	3.000
B-	80-82	2.667
C+	77-79	2.333
C	73-76	2.000
C-	70-72	1.667
D+	67-69	1.333
D	63-66	1.000
D-	60-62	0.667
F	0-59	0.000

Weighted Grades

All dual credit courses will be weighted and will have a one-step higher point value than unweighted courses.

Grade Point Average - Class Rank

All students will receive a current and cumulative grade point average which will be calculated at the end of each semester. With the exception of pass/fail courses and correspondence courses, grades earned in all classes at DESE accredited schools will be used in the calculation of honor roll and GPA. Grades earned in MoVIP courses will be calculated in GPA and Honor Roll, but will not be calculated in class rank. The two students that have the top two cumulative G.P.A.’s from the 9th to the 12th grades will be named valedictorian/salutatorian accordingly. The student must be a Silex R-1 School District student for at least five semesters and cannot have a modified academic schedule to be eligible for Valedictorian, Salutatorian, or top ten percent of class.

Scheduling Policy

The following information should be considered when planning a schedule:

1. High School students are permitted to enroll in only one physical education class for the school year if they earned a minimum of an 80% the prior year. (Freshman are excluded from the 80% criteria)
2. No student may be excused from school time to work unless they are participating in an approved Silex FLEX Program during their senior year.
3. All students are required to pass a test on the United States Constitution and Missouri Constitution. No student shall graduate on or after January 1, 1994 without successfully completing a course of instruction of United States Government and American History. Beginning with the graduating class of 2021, students must also pass an American Civics exam.
4. In order to participate in the graduation exercises and proceedings, seniors must have completed all requirements for graduation prior to the conclusion of the seniors' last day of attendance. This includes correspondence courses.
5. Credit for correspondence courses will be evaluated on an individual basis. Requests for a correspondence course should be directed to the counselor and principal. The course must be completed satisfactorily before the last day of seniors to be considered for graduation requirements.
6. Credit from an approved summer school program can be accepted toward promotion or graduation. Requests should be directed to the counselor and principal.
7. Each student should be aware of the requirements for the type of diploma towards which they are working.
8. Eight semesters of attendance are required for graduation, unless an early graduation has been approved by the Board of Education.
9. Teacher Aides and Community Youth Volunteers must be seniors with a minimum 2.0 GPA and no office discipline the prior year. Only one credit of TA or CYV may be taken during a student's high school career.
10. School officials can make recommendations to students and their parents/guardians, but the final decision as to course requests is left to the students and their parents/guardians. It is, therefore, very important that parents/guardians be active in their child's schedule from the beginning. It is very difficult, if not impossible, for a student to decide after the sophomore year to pursue a College Prep Diploma if appropriate courses have not already been taken. Students should select the courses which they need to meet their educational goals, not necessarily those which would be the easiest or most interesting or because a friend is taking a certain path.

Dropping a Course

Students who enroll in a class will have a maximum of five days to drop a course. Students dropping a course will be required to take another course in place of the one dropped. Students who drop or are removed from any class prior to the end of the grading period will not earn a passing semester grade unless (1) prior arrangements had been made, or (2) it is determined that exceptional circumstances exist. It is felt that students cannot get the full educational benefit from year-long courses unless they attend the entire year. Therefore, courses are designed so that students must attend the entire year and can be dropped only for the following reasons:

1. Students who have earned an "F" for the semester may be allowed to drop upon recommendation of the teacher, counselor, parent and principal. Students may be permitted to drop only if it is determined that they are unable to master the course.

Failure to work will not exempt a student.

2. Students may drop a year-long course at the semester if it is determined by the principal that a serious student-teacher conflict exists. The student will receive the 1st semester grade he/she has earned. However, if a student is removed from a year-long class at any other time because of a student-teacher conflict, he or she will automatically receive an “F” for the semester. It is the student’s responsibility to make sure he or she has taken all the required courses for graduation. The counselor will assist students who have questions.

Transfer Students

Students that transfer from another public accredited school that uses a different credit system than the standard 7-period day will have their credits pro-rated basis. If a student has passed 100% of their courses at their previous school, then they will get 7 credits for each year they transfer in. Students who have failed one or more classes will receive approximately the same percent of credits they received at their previous school rounded down to the nearest ½ credit. Home schooled and unaccredited transfers will follow the Silex BOE policies and State Graduation Policies.

Alternate Methods of Receiving Credit

1. Summer School Silex R-I Summer School only:
 - A. High School- ½ credit may be earned each session.
*Summer school will be offered pending State funding.
2. Dual Enrollment- When a student receives credit by taking a college-level class for high school and college credit:
 - A. Articulation- This credit is received at Silex High School. It is when a class meets the standards of a given college class. The student receives both high school credit and college credit for a minimal fee to the college.
 - B. College Class Enrollment- When a student actually takes class(es) at a given college. Pre-approval must be obtained from the principal and counselor if high school credit is desired.
3. Correspondence- When a credit is received by taking a class by independent study through the University of Missouri-Columbia or A-Plus Learning System. All work must be completed outside of the regular instruction day. A maximum of ½ unit of credit may be earned unless special circumstances warrant an exception.
4. MOVIP – Students can take any class they wish from MOVIP at their expense. They must be enrolled in Silex R-1 School District regular instruction a minimum of five class periods to be eligible for extra-curricular activities.

Pike Lincoln Tech Center

Students from S.H.S who attend Pike/Lincoln Technical Center are subject to the rules and policies of both schools. This includes attendance, discipline, and bus conduct policies of Pike/Lincoln Tech Center. All students and parents must have a signed agreement for attendance on file with the principal in order to participate in program. Parents of students who are

interested in the Tech Center should stay apprised of the spring admission dates for the Center. Students going to PLTC must be at school by 7:50 am.

Missouri Southern State University – Joplin, MO

Senior students have the opportunity to take 12 college credit hours in a dual enrollment program offered by Missouri Southern State University through online classes taken here at SHS. Students must have a 3.25 GPA in their core classes during their first 6 semesters in high school, a good discipline record, and above a 95% attendance rate during that time to qualify. Students and their parents can petition the building principal for an exception to not meeting one of these criteria. Students will pay all fees for the college credit to Missouri Southern (\$150 per class during the 2018-2019 school year), along with the book and supply fees assessed by Missouri Southern.

A+ Schools Program

If state funds are available and our high school continues designation as an A+ School prior to graduation, students may receive reimbursement for college expenses as determined by the Missouri General Assembly while attending a Missouri public community college or public vocational/technical school on a full-time basis. This reimbursement may be for the unpaid balance of the cost of tuition subject to legislative appropriation. This financial assistance is on the condition that the following requirements are met:

1. Attend an A+ designated school for three (3) consecutive years immediately prior to high school graduation.
2. Graduation from high school with a grade point average of 2.5 or higher on a 4.0 scale (non-weighted GPA).
3. Have at least 95 percent attendance record for the four-year period.
4. Graduate with fifty (50) documented hours of unpaid tutoring of students in approved settings.
5. Maintain a record of good citizenship and avoid the unlawful use of drugs and alcohol.
6. Make a good faith effort to secure federal post-secondary student financial assistance funds during the last semester of senior year.
7. All males who reach their 18th birthday must register for the Selective Service. (This is a federal requirement regardless of whether you enroll in the A+ program or not).
8. **Beginning with the high school senior class of 2015, have achieved a score of proficient or advanced on the Algebra I end of course exam. If this requirement is not met, students may still qualify based on their Math ACT score and g.p.a.**

To maintain eligibility after high school graduation, the following requirements must be met:

1. Enroll and attend on a full-time basis a Missouri public community college or public vocational/technical school.
2. Maintain a grade point average of 2.5 or higher on a 4.0 scale.
3. Make a good faith effort to secure federal post-secondary student financial assistance each year.

COURSES OFFERED IN LANGUAGE ARTS

Sixth Grade Language Arts

Prerequisite: Completion of Fifth Grade

Grade: 6

Length: 1 year

Course Description:

Language Arts is a year-long course that focuses on reading, grammar, vocabulary, and writing skills. Students will develop their writing skills through assignments such as essays, short stories, paragraphs, research papers, and grammar activities. Reading will apply decoding strategies to “problem solve” unknown words when reading grade-level instructional text with fluency and accuracy. Furthermore, students will develop and apply skills and strategies to comprehend, analyze, and evaluate fiction, nonfiction, poetry, and drama from a variety of cultures and times. The main purpose of Language Arts is to develop the ability to communicate effectively both orally and in writing. It will ultimately enable students to better understand and appreciate language. In addition, it will give students a greater knowledge to aid them in their drive to achieve their future goals.

Sixth Grade Exploration of Contemporary Novels/ELA MAP Prep. (Exploratory)

Prerequisite: Completion of Fifth Grade

Grade: 6

Length: 1 quarter

Course Description:

This course emphasizes the development of critical reading skills. A variety of literature and informational text of steadily increasing sophistication is used. Through close reading, critical writing, class discussions, and presentations, students deepen their ability to analyze, evaluate, and critique text independently. Students actively seek to understand other perspectives and cultures through reading and listening. Technology is used thoughtfully to enhance and integrate reading, writing, speaking, listening, and language use.

Seventh Grade English

Prerequisite: Completion of Sixth Grade

Grade: 7

Length: 1 year

Course Description:

Language Arts is a year-long course that focuses on grammar skills, vocabulary skills and writing skills. . Students will develop their writing skills through assignments such as essays, short stories, paragraphs, research papers, spelling assignments and grammar activities. The main

purpose of Language Arts is to develop the ability to communicate effectively both orally and in writing. It will ultimately enable students to better understand and appreciate language. In addition, it will give students a greater knowledge to aid them in their drive to achieve their future goals.

Eighth Grade English

Prerequisite: Completion of Seventh-Grade English

Grade: 8

Length: 1 year

Course Description:

Language Arts is a year-long course that focuses on grammar skills, vocabulary skills, and communication skills. Students will develop their writing skills through assignments such as essays, short stories, paragraphs, research papers, spelling assignments, and grammar exercises.

The main purpose of Language Arts is to develop the ability to communicate effectively, both orally and in writing. The purpose of this course is to aid students in becoming more proficient in their oral and written communication skills so they will have a better understanding and appreciation for language. In addition to giving them background knowledge to aid them in their effort to achieve their future goals.

English I

Prerequisite: Completion of Eighth-Grade English

Grade: 9

Length: 1 year

Course Description:

English I is a year-long course that focuses on grammar skills, writing skills, communication skills and critical skills, and critical thinking skills. Students will also survey several types of literature. Students will develop their writing skills through assignments and grammar exercises. Students will be exposed to a variety of literary elements and genres through in-class reading assignments and several outside reading activities. The main purpose of English I is to develop the ability to communicate effectively both orally, and in writing. The purpose of this course is to aid students in becoming more proficient in their oral and written communication skills so they will have a better understanding and appreciation for language and literature in addition to giving them background knowledge to aid them in their effort to achieve their future goals.

English II

Prerequisite: English I

Grade: 10

Length: 1 year

Course Description:

English II is a year-long, required course for all students. In writing, the course focuses on students' using the Writing Process as their basis for producing narrative, expository, and creative writings. Development of techniques, organizational skills, strategies for showing support, and enrichment of vocabulary and grammar/mechanics/sentence combining skills are covered in-depth. In literature, the course focuses on world literature from myths to contemporary literary themes and/or techniques. An in-depth study of the short story and Shakespeare's sonnets and plays are provided. Projects are used throughout the year and enable the students to further develop team working skills. Students will maintain a Writers Journal and an Active Reader Journal as part of their course work. The active Reader Journal will be used primarily when they are in Literature units.

English III

Prerequisite: Student with Junior or Senior Standing w/ Teacher Approval

Grade: 11-12

Length: 1 year

Course Description:

English III is a year-long course designed for the students who are planning on furthering their education after high school. The students will do an in-depth study of essay writing and produce essays using the several different development and organizational strategies. During this process, the students will be exploring their own writing style and voice. In Literature, the students will explore the literature of America; and at times, compare/contrast American themes with other cultures' themes. Several projects will be incorporated throughout the year which will provide the students to enrich their teamwork skills.

English IV

Prerequisite: Student with Junior or Senior Standing w/ Teacher Approval

Grade: 11-12

Length: 1 year

Course Description:

English III is a year-long course designed for the students who are planning on furthering their education after high school. The students will do an in-depth study of essay writing and produce essays using the several different development and organizational strategies. During this process, the students will be exploring their own writing style and voice. In Literature, the students will explore the literature of America; and at times, compare/contrast American themes with other cultures' themes. Several projects will be incorporated throughout the year which will provide the students to enrich their teamwork skills. This class will examine more complicated works than students will in English III. It may be taken by juniors who plan to attend college classes in their senior year.

COURSES OFFERED IN MATHEMATICS

Sixth Grade Mathematics

Prerequisite: Completion of Fifth Grade

Grade: 6th

Length: 1 year

Course Description:

In this course, students will review and deepen their understanding of previous taught concepts including the operations with fractions, the operations with decimals, and problem solving. Other topics to be taught are ratios and rates, exponents, one and two step equations, inequalities, measures of central tendency and three-dimensional shapes.

Seventh Grade Mathematics

Prerequisite: Completion of Sixth Grade

Grade: 7

Length: 1 year

Course Description:

Seventh Grade math reviews previously taught topics involving whole numbers, decimal numbers, number theory, fractions, and measurement. Problem solving, estimation, and number sense are incorporated into all areas. Skills are expanded in working with ratios, proportions and percent, and graphing and statistics. New topics introduced are writing and solving equations and operations with positive and negative integers.

Eighth Grade Pre-Algebra

Prerequisite: Completion of Seventh-Grade Math

Grade: 8th

Length: 1 year

Course Description:

This course will enable the student to see the relevancy of mathematics in real-life situations. Since one needs to be able to become competent in basic mathematical operations and concepts, but will also need to be able to apply the mathematics they have learned in the classroom and see it as a useful tool in their future lives, this course will provide those opportunities.

Algebra I

Prerequisite: Seventh-Grade Math w/approval or Eighth-Grade Math

Grade: 8-11

Length: 1 year

Course Description:

First of a series of courses that can prepare students for promising opportunities in higher education and in future careers. Algebra I is much like the ABC's. The students will learn and build upon that learning.

Algebra II

Prerequisites: Algebra I with a "C" average

Grades: 10-12

Length: 1 year

Course Descriptions:

Advanced Algebra is designed for students with a wide range of abilities and interests. The topics introduced in Algebra and Geometry are discussed in more detail using function notation and graphic representations. New topics discussed include matrix operations and applications.

Geometry

Prerequisite: Algebra II with a "C" average

Grades: 9-12

Length: 1 year

Course Description:

Geometry acquaints the student with deductive and inductive reasoning. Logical thinking is emphasized throughout as the student presents direct (formal) and indirect proofs. While Euclidean geometry forms the basics, other geometry's such as coordinate geometry and transformational geometry are introduced. Also included is the study of right triangles, trigonometry and properties of 3-dimensional shapes.

College Algebra

Prerequisite: "B" or higher in Algebra II, or recommendation by the teacher

Grade: 11-12

Length: 1 year

Course Description:

College Algebra reviews and studies algebraic concepts. It a self-paced course taught through a computer program. It is the responsibility of the student to keep up with the material and ask for assistance when needed. Course topics include properties of exponents and radicals, complex numbers, equations and inequalities. This course also introduces operations on various functions, such as rational, inverses, exponentials, and logarithms. This class may be taken for college credit through Truman State University. As of the 2019-2020 school year, the three-credit class costs \$355 with no book fee.

College Plane Trigonometry

Prerequisite: "C" or higher in College Algebra

Grade: 11-12

Length: 1 semester

Course Description:

College Plane Trigonometry studies the essentials of trigonometry with some applications. It is a self-paced course taught through a computer program. It is the responsibility of the student to keep up with the material and ask for assistance when needed. The study of trigonometry deals most with the relations of the sides and angles of triangles and with the relevant trigonometric functions of those angles. This course has a particular emphasis on problem solving and computational skills. This class may be taken for college credit through Truman State University. It is a two-credit class, and it will cost \$170 with no book fee during the 2019-2020 school term.

Elementary Statistics

Prerequisite: Algebra II

Grade: 11-12

Length: 1 semester

Course Description:

This course prepares students to take entry level Statistics in college. Students should have a solid foundation in algebra prior to enrollment. Technology is an integral part of the course. Graphing calculators will be the primary tools for data analysis.

COURSES OFFERED IN SCIENCE

Sixth Grade Science

Prerequisite: Completion of Fifth Grade

Grade: 6

Length: 1 year

Course Description:

This is a general science program in which interrelationships among life, earth and physical sciences are surveyed. Students are given the opportunity to increase their understanding of the world they live in and also discover how they can play an active role in preserving its future. Problem solving through scientific inquiry using the steps of the scientific method is emphasized.

Seventh Grade Science

Prerequisite: Completion of Sixth Grade

Grade: 7

Length: 1 year

Course Description:

This is a general science program in which interrelationships among life, earth and physical sciences are surveyed. Students are given the opportunity to increase their understanding of the world they live in and also discover how they can play an active role in preserving its future. Problem solving through scientific inquiry using the steps of the scientific method is emphasized.

Eighth Grade Science

Prerequisite: Completion of Seventh Grade

Grade: 8

Length: 1 year

Course Description:

This is a general science program in which interrelationships among life, earth and physical sciences are surveyed. Students are given the opportunity to increase their understanding of the world they live in and also discover how they can play an active role in preserving its future. Problem solving through scientific inquiry using the steps of the scientific method is emphasized.

Physical Science

Prerequisite: Completion of Eighth Grade

Grade: 9-11

Length: 1 year

Course Description:

You are embarking on an adventure into the study of physical science that will be challenging, interesting, and practical. This subject presents endless opportunities to learn about the physical (non-living) world around you. This class will help you understand why many things occur the way they do and how many everyday things work, such as a nuclear power plant and musical instruments. This program offers a well-balanced introduction to the chemical and physical properties of matter, forms of energy, and laws of motion.

Biology

Prerequisite: Physical Science

Grades: 9-12

Length: 1 year

Course Description:

Biology as a science attempts to answer three questions, which have probably been in the minds of some humans since humans first walked on this planet:

“What is Life?”

“How do living things work?”

“Why do living things work as they do?”

It will be a challenge to you to understand the questions, the concepts, and the processes presented in this class. Accepting the challenge will help you make decisions that affect your life now and in the future.

Advanced Biology

Prerequisite: 3.0+ GPA, “B” or higher in Biology

Grades: 11-12

Length: 1 year

Course Description:

This course further develops the key concepts of General Biology. The student will be expected to complete a rigorous study of living things. It will be necessary for them to perform laboratory activities as well as textbook assignments. The subject material will range from the microscopic level to the study of large ecosystems. Application of biology will include animal and plant science to the everyday world surrounding each student.

Chemistry

Prerequisite: 3.0 + GPA, “B” or higher in Algebra I and Physical Science

Grade: 11-12

Length: 1 year

Course Description:

Chemistry is the study of material, their compositions and structure and the changes they undergo. The theoretical information is important in linking chemistry to the world around us. This course will cover the most basic principles to quite complex applications. This approach will give meaning and greater comprehension to the technical world of chemistry.

COURSES OFFERED IN SOCIAL STUDIES

Sixth Grade Social Studies

Prerequisite: Completion of Fifth Grade

Grade: 6

Length: 1 Year

Course Description:

Sixth-Grade Social Studies will explore ancient civilizations. For each civilization students will discover how geography, political systems, culture, and religion played a role in that civilization's development. Students will be introduced to proper research techniques, practicing comprehension techniques and exercising critical thinking skills.

Seventh Grade Social Studies

Prerequisite: Completion of Sixth Grade

Grade: 7

Length: 1 year

Course Description:

Seventh-Grade Social Studies will explore the four hemispheres and their people from earliest time to the present. In addition, the students will learn about the American legal system, the foundations of American Citizenship, structures of government on all levels, and various economics systems.

Eighth Grade Social Studies

Prerequisite: Seventh-Grade Social Studies

Grade: 8

Length: 1 year

Course Description:

In this course, the student will re-examine the discovery, exploration, settlement and formation of the United States of America. The students will discover the various reasons for European immigration to the US, early commercial practices, conflicts with Native American cultures and the people and events that shaped and created this country. People such as Columbus, Washington, Jefferson and Franklin will be studied and events such as the American Revolution, the Lewis and Clark Expedition, the War of 1812, and the Indian Removal Act will be examined and discussed. By using proper research methods, practicing comprehension techniques and exercising critical thinking skills the student will develop into a more dedicated and informed American Citizen.

American History

Prerequisite: Eighth-Grade Social Studies

Grade: 9

Length: 1 year

Course Description:

In this course, the student will re-examine the causes, events and aftermath of the Civil War and explore the expansion of America and its effects on Native American Cultures. In addition, the student will discuss the lessons learned from such events as World War I, the great depression, World War II and Vietnam. The student will also discover the part Americans play in current global affairs. By using proper research methods, practicing comprehension techniques and exercising critical thinking skills the student will develop into a more dedicated and informed American Citizen.

World History

Prerequisite:
Grade: 10-12
Length: 1 year

Course Description:

In this course the student will learn about the beginnings of civilization, civilizations of Mediterranean world, development of the Western empire and Eastern empire, emergence of modern nations, development of Industrial society, World War I and World War II eras, and the modern world.

Government

Prerequisite: American History & one additional Social Studies credit
Grade: 11
Length: 1 year

Course Description:

In this course the students will examine and compare various governmental systems throughout the world. The students will examine how these types of government affect the people of those countries and how the differences in them have led to international and internal conflict. The students will explore in detail the democracy which is the United States, its history, its founders, its structure and its theory. Special emphasis will be placed on analysis of the Constitution of the United States of America and it will serve as a guide as students discover their rights and responsibilities as American citizens. By using proper research techniques, practicing comprehension methods and exercising critical thinking skills, the student will develop into a more dedicated and informed American citizen.

COURSES OFFERED IN ART

7th/8th Art (Exploratory)

Grade: 7-8
Length: 1 quarter

Course Description:

Junior high art continues to build on the skills taught in elementary art through a deeper investigation of the elements and principles of design. Student engages in activities that encourage creative thinking and achievement in a quality of work commensurate with their skill level. Instructions are given in the form of brief texts, lecture, demonstration and individual critique and guidance. Students further develops the elementary and principals of design, perspective, painting, and 3-dimesional art, and drawing skills.

Art I

Grade: 9-12
Length: 1 year

Course Description:

Art I is designed to provide basic knowledge of art fundamentals, and enable the student to make intelligent choices involving the aesthetics and art in their everyday life. It introduces a variety of techniques and materials, and provides a basis for leisure time experiences as well as establishing an appreciation for various art areas.

Advanced Art

Prerequisite: Art I, B+ GPA in Art or Teacher's Approval
Grade: 10-12
Length: 1 year

Course Description:

This course is intended for students who wish to continue their arts education beyond school requirements. This course reinforces and builds on the skill learned in the other art classes. These serious art students will develop their abilities in sculpting, painting, drawing, critiquing and multi-media composition. Students are encouraged to pursue art at the college level and as a career.

Note: All art classes are required to have a drawing notebook. Drawings are due each month. Subject matter is determined by the teacher.

COURSES OFFERED IN MUSIC

Sixth-Grade Band

Grade: 6
Length: 1 year

Course Description:

The Beginning Band is designed to provide students with an introductory experience on band instruments. Curriculum for this course is an extension of the skills and concepts introduced in General Music classes. Beginning Band is open to all Sixth Grade students. Prior instrumental music experience is not required.

Jr. High Band

Prerequisite: 6th Grade Band unless Approved by Teacher
Grades: 7-8
Length: 1 year

Course Description:

This course is designed to offer students advancement in instrumental music activities and prepare them for High School Band. Students will be graded on individual performance based on the grade level expectations, participation and conduct in class and performance attendance. Students will be given the opportunity to perform with the high school band through out the year only if they have achieved the music goals set by the teacher. Student will be permitted to play with the High School pep band if they wish. Students will be required to purchase and Band shirt and any accessories need for their instrument. Students will also be required to participate in all fundraising activities throughout the year and attend all performances.

High School Band

Prerequisite: Elementary and Jr. High Band
Grades: 9-12
Length: 1 year

Course Description:

This select band course is offered to students with previous musical training, ability, and interest. The band gives the students the opportunity to further refine their existing skills. Particular attention is given to tonal blend, technical facility, and overall band excellence. Students will be graded on their improving musical ability as well as their participation and conduct during class. Students are given the opportunity to participate in All-Conference band in 9th – 12th grade and are encouraged to perform solos and ensembles at district competitions and festivals. Student will perform at high school basketball games as a pep band. Students will be required to attend

all performances as pep band and at all concerts and events the band participates in. Student are required to purchase Band shirts for contests and concerts and are also required to participate in all fundraising activities.

Jr. High and High School Choir

Prerequisite: Completion of Sixth Grade

Grades: 7-12

Length: 1 year

Course Description:

The students will learn a basic approach to singing with proper tone and pitch recognition through the performance of songs. They will learn music notation and the basic language of music to further their knowledge of sight singing. The group will sing three and four part harmonies and apply their knowledge of music to each song performed. Students will be graded on individual performance on a daily basis and on class participation and conduct. The students will perform in the Christmas concert and spring concert. Choir members will be encouraged to participate in All Conference Choir and perform solos and ensembles at district and state level competitions. Choir students are required to attend all concerts and performances and participate in all fundraising activities. Performance will account for about 40% of the overall grade.

HS Drama/Speech:

Grades: 9-12

Length: 1 year

Course Description:

The major emphasis is the development of students as oral communicators. To fulfill this goal, students will present prepared and impromptu speeches. Students will learn basic speechwriting skills as well as the principles of oral communication. Units of study will include (but not be limited to) the basics of communication, speeches of introduction, process speaking, informative speaking, persuasive speaking, advertising, and impromptu speaking. Students will also explore the fundamentals of acting as the actor uses his voice, mind, and body, through the utilization of exercises and games, through which the students develop ensemble and individual performance skills. This course will provide a wonderful opportunity for the students to express themselves creatively in an unthreatening and accepting class environment as students will be free to try and fail, and will be challenged to try again!

COURSES OFFERED IN FAMILY & CONSUMER SCIENCES

7th/8th Family and Consumer Science: FACS (Exploratory)

Prerequisite: Completion of Sixth Grade
Grade: 7-8
Length: 1 quarter

Course Description:

This exploratory course is designed to introduce students to Family and Consumer Sciences. Students will have the opportunity to learn about building healthy relationships, develop introductory food preparation skills, construct sewing projects using hand sewing and the sewing machine, learn basic interior design concepts and, lastly, be introduced to the business of babysitting. All the course activities will emphasize safety and teamwork in an interactive environment. This course is open to all skill levels.

Foods I

Prerequisite: None
Grades: 10-12
Length: 1 semester

Course Description:

The course prepares individuals to understand the principles, relationships to health and well-being, the selection, preparation and care of food; meal management to meet individual and family food needs, the patterns of living and the best use of the food dollar.

Advanced Foods II

Prerequisite: Intermediate Foods
Grade: 10-12
Length: 1 semester

Course Description:

This course emphasizes variety in food products and preparation techniques, diet in health and illness, experimentation in meal patterns and the significance of food as it relates to various cultures and world conditions.

Child Development I:

Prerequisite: None
Grades: 10-12
Length: 1 Semester

Course Description:

This course is designed to prepare individuals to understand children's physical, mental, emotional and social growth and development. Also includes instruction and experience in child care and guidance.

Advanced Child Development II

Prerequisite: Child Development
Grades: 10-12
Length: 1 Semester

Course Description:

This course is designed to prepare individuals advanced study to understand children's physical, mental, emotional and social growth and development. Also includes instruction and experience in child care and guidance.

BUSINESS EDUCATION COURSE DESCRIPTIONS

6th- Grade Keyboarding (Exploratory)

Prerequisite: Completion of Fifth Grade
Grade: 6
Length: 1 quarter

Course Description:

This course covers basic keyboarding skills. Emphasis is on the touch system, correct techniques, and development of speed and accuracy. Upon completion, students should be able to key at acceptable speed and accuracy using the touch system.

7th/8th Computer Applications (Exploratory)

Prerequisite: Completion of Sixth Grade
Grade: 7-8
Length: 1 quarter

Course Description:

This course is designed to help students master beginning and advanced skills in the areas of word processing, database management, spreadsheet applications, desktop publishing, multimedia, Internet usage and integrated software applications. (See below.)

Course Objectives: <http://dese.mo.gov/sites/default/files/bmit-computer-apps-objectives.pdf>

Personal Finance

Grade: 10

Length: 1 semester

Course Description:

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

Competencies: http://dese.mo.gov/sites/default/files/personal_finance_competencies.pdf

Course Curriculum: <http://dese.mo.gov/sites/default/files/bmit-personal-finance-curriculum.pdf>

Website: <https://dese.mo.gov/college-career-readiness/curriculum/missouri-learning-standards#mini-panelmls-standards5>

Computer Applications

Prerequisite: JH Computer Applications

Grade: 9 and 10

Length: 1 year

Course Description:

This course is designed to help students master beginning and advanced skills in the areas of word processing, database management, spreadsheet applications, desktop publishing, multimedia, Internet usage and integrated software applications.

Course Objectives: <http://dese.mo.gov/sites/default/files/bmit-computer-apps-objectives.pdf>

Course Units:

Semester 1: Google Applications

Semester 2: Microsoft Office

- Input Methods
- Construct Business Documents using Presentation Applications
- Construct Business Documents using Spreadsheet Applications
- Construct Business Documents using Word Processing Applications
- Construct Business Documents using Database
- Develop Workplace Readiness Skills
- Execute Basic Computer Operations
- Explore the Internet and Online Classroom Portals

Intro to Business

Prerequisite: Computer Applications

Grade: 10+

Length: 1 semester

Course Description:

This course is designed to introduce students to how business works in today's society and to provide a foundation for other business courses. Content includes business functions such as accounting, management, marketing and other consumer issues regarding money and money management, banking system and services, government's role in business and technology in the business world.

Course Objectives:

<http://dese.mo.gov/sites/default/files/bmit-intro-to%20businss-objectives.pdf>

Course Units:

- Communication and Interpersonal Skills
- Economic Awareness
- Global Economic Awareness
- Employability Skills
- Entrepreneurship
- Business Operations
- Making Wise Consumer Choices
- Research Skills

Marketing/Advertising

Prerequisite: Computer Applications

Grade: 10+

Length: 1 semester

Course Description:

Fundamentals of Marketing

An instructional program for students who are interested in a career in the field of marketing and management. This course includes instructional areas designed to provide an understanding of the fundamental marketing processes and an orientation to the American free enterprise system.

Course Objectives: <https://dese.mo.gov/sites/default/files/bmit-marketing1-objectives.pdf>

Instructional Framework: <http://dese.mo.gov/sites/default/files/MarketingI-Framework.pdf> Course Standards: <http://dese.mo.gov/sites/default/files/MarketingI-Standards.pdf>
National Standards: http://www.mbaresearch.org/images/PDFs/MarketingCluster_2.pdf

Course Units:

- Career Professional Development
- Communications
- Economics
- Marketing Concepts
- Pricing
- Product Service Management
- Promotion
- Selling

Advertising

An instructional program that describes the creation, execution, transmission and evaluation of commercial messages concerned with the promotion and sales of products and services.

Course Objectives: <https://dese.mo.gov/sites/default/files/bmit-advertising-objectives.pdf>

Course Units:

- Promotional Plan
- Branding and Consumer Behavior
- Careers in Advertising and Promotion
- Forms of Media and Technology
- History and Evolution of Advertising and Promotion
- Market ID and Creativity
- Promotional Mix

Desktop Publishing (Yearbook)

Prerequisite: Computer Applications

Grade: 10+

Length: 1 year

Course Description:

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

Course Objectives:

<http://dese.mo.gov/sites/default/files/bmit-desktop-pub-graphic-arts-objectives.pdf>

Course Units:

- Design Concepts
- Typography Concepts
- Portfolio
- Basic Foundations of Communications
- Foundational Concepts
- Manage Images Appropriately
- Publication Layout
- Print Process

AGRICULTURE EDUCATION COURSES

7th/8th Agriculture Science (Exploratory)

Prerequisite: Completion of Sixth Grade
Grades: 7-8
Length: 1 quarter

Course Description:

Class is an introduction to general agriculture covering plants, animals, and career opportunities in related fields.

Agriculture Science I

Prerequisites: JH Practical Art credit
Grades: 9
Length: 1 year

Course Description:

This motivating course introduces first year agriculture students the basics of Agriculture. Instruction will include animal production of swine, dairy, beef and poultry. Instruction also includes animal nutrition, animal selection and animal breeding. Students will be introduced to careers in agriculture, leadership skills offered through FFA, including their *Supervised Agriculture Experience Projects (SAEP) and the importance of record keeping. FFA will be an exciting component of this agriculture class. College scholarships are available for students completing 4 years of agriculture classes.

Agriculture Science II

Prerequisite: Agriculture Science I
Grade: 10
Length: 1 year

Course Description:

This course is for second year agriculture students. Students will receive instruction on meat science, plant science, forestry, entomology, and introduction to agriculture mechanics. Students will also receive instruction on parliamentary procedure, written and verbal communication skills, while keeping accurate records on their *SAE projects. Like all agriculture classes, FFA is a strong component of this agriculture class.

Agriculture Construction I and II

Prerequisite: Agriculture Science I and II

Grades: 11-12

Length: 1 year

Course Description:

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. Students will maintain their personal record book on their *Supervised Agriculture Experience Program (SAEP).

Greenhouse and Landscape Management

Prerequisite: Agriculture Science I and II

Grades: 11-12

Length: 1 year

Course Description:

Students will receive instruction on plant and flower identification and growth of plants commonly grown in Missouri greenhouses. Students will develop skills in plant identification and recommended plant uses. Units of study include plant growth and development, plant propagation, greenhouse management, growing techniques, insect identification, and careers in the horticulture industry. Students will also participate in the *Supervised Agriculture Experience Program and FFA leadership.

Agriculture Communications

Prerequisite: Agricultural Science I & II

Grades: 11-12

Length: 1 semester (1st)

Course Description:

This course will enable students to develop the knowledge, attitudes and skills to demonstrate positive leadership for agriculture. Areas of focus include public speaking, extemporaneous

speaking, impromptu speaking, written communication, meeting people, good first impressions, personal goals, team work, team/organizational goals, organizing groups to take action and evaluation of team/organizational actions.

Agriculture Leadership

Prerequisite: Agricultural Science I & II

Grades: 11-12

Length: 1 semester (2nd)

Course Description:

Agricultural Leadership is an advanced leadership course for students in agriculture. Students will have the opportunity to develop advanced personal and team leadership skills. Students will have the opportunity to develop leadership activities and conduct a workshop for Junior High FFA Members. Students are expected to join the Silex FFA.

COURSES OFFERED IN PHYSICAL EDUCATION

6th-Grade Physical Education

Prerequisite: Completion of Fifth Grade

Grades: 6

Length: 1 year

Course Description:

This curriculum is designed to provide continuous as well as sequential development in motor skill activities. Through various units, the improvement of self-image body awareness and social skill, as well as recreational activities, are major objectives each participant will strive to achieve.

Junior High Physical Education

Prerequisite: Completion of Sixth Grade

Grades: 7-8

Length: 1 year

Course Description:

This curriculum is designed to provide continuous as well as sequential development in motor skill activities. Through various units, the improvement of self-image body awareness and social skill, as well as recreational activities, are major objectives each participant will strive to achieve.

High School Physical Education

Prerequisite: JH PE credit
Grades: 9-12
Length: 1 year or 1 semester

Course Description:

This Curriculum is designed to provide continuous, as well as sequential development in motor skills activities. Through various units, the improvement of self-image, body awareness, and social skills, as well as recreational activities, are major objectives each participant will strive to achieve.

Body Conditioning

Prerequisite: JH PE credit
Grades: 9-12
Length: 1 year

Course Description:

Student will participate in a class that will be physically demanding with the goal being to improve the student's current physical health. This goal will be met in a variety of different ways. There will be time spent running, weight-lifting, plyometrics, ladder work, and games that focus on physical fitness. There will also be time spent on improving skills in different types of activities.

One course in Physical Education is required; a grade of 80% or above is required to take an additional PE Credit.

HEALTH COURSES

6th-Grade Health (Exploratory)

Prerequisite: Completion of Fifth Grade
Grade: 6
Length: 1 quarter

Course Description:

This course is designed to assist students in obtaining accurate information, developing lifelong positive attitudes and behaviors, and making wise decisions related to their personal health. Study will include personal and community health; mental, emotional, and social health; injury prevention and safety; nutrition and physical activity; alcohol, tobacco, and other drugs; growth, development, and sexual health. Central themes are the acceptance of personal responsibility for lifelong health, respect for and promotion of the health of others, an understanding of the process of growth and development, and informed use of health-related information, products, and services.

Health

Prerequisite: None
Grades: 10
Length: 1 semester

Course Description:

Health is the study of the human body, topics to be studied include: function and interrelationships of systems, maintaining and enhancing your health, and assess and reduce health risks.

ADDITIONAL COURSES OFFERED

Community Youth Volunteers (CYV)

Prerequisite: 2.5 GPA, On Track for Grad., 95% Atten., Positive Disc. Record
Grades: 12
Length: 1 year or 1 semester

Course Description:

Students volunteer for service organizations in the community during one hour of their schedule. CYV Coordinator matches students to service organizations based on community needs. Student, Service Organization Supervisor, and Parent/Guardian must all sign and adhere to the CYV Training Agreement. It is expected that students spend the entire hour at their respective volunteer location. Service Supervisors are responsible for providing the student volunteer with job responsibilities associated with their assignment. Grade is based on attendance, performance, evaluation, and semester reflections.

PLTW Innovators and Makers (Exploratory)

Prerequisite: Completion of Fifth Grade
Grade: 6
Length: 1 quarter

Course Description:

This unit will allow students to discover computer science concepts and skills by creating personally relevant, tangible, and shareable projects. Throughout the unit, students will learn about programming for the physical world by blending hardware design and software development. They will design and develop a physical computing device, interactive art installation, or wearable, and plan and develop code for microcontrollers that bring their physical designs to life.

PLTW Computer Essentials

Grade: 9-12
Length: 1 year

Course Description:

This course engages students with real-world computational situations and problems to solve. It is a hands-on project environment learning computer science coding skills and testing codes on tablets and VEX robots. Students will learn not only coding programs but life skills such as computational thinking, problem solving strategies, collaboration with others and improving communication skills. This course involves students utilizing their math, science and reading skills.

A+ Tutoring

Prerequisite: Enrollment in A+ Program w/ Minimum Requirements Met to Date
Grade: 11-12
Length: 1 year or 1 semester

Course Description:

This class provides A+ Program students with the opportunity to meet the required number of tutoring hours with younger students.

FLEX Program:

Prerequisite: Student with Good Credit Status
Grade: 12
Length: 1 year or 1 semester

Course Description:

This opportunity is for students who are in good credit condition and work part-time outside of school. Credit may be enrolled if a student is employed at a documented job (w/ paychecks, timesheets, etc. as verification). The student must work a minimum of 10 hours per week for each hour that he/she is flexing out of school, the maximum not to exceed three release hours of school.

COURSES OFFERED IN FOREIGN LANGUAGE

Spanish I

Prerequisite: Superior Grades in English
Grades: 9-12
Length: 1 year

Course Description:

Spanish I is a year-long course that focuses on the building of a strong grammar base, a broad focus on oral communication, a thematic introduction of new vocabulary, a development of listening comprehension skills, the building of speaking, proficiency, and extensive practice through oral and written exercises. The main purpose of Spanish I is to develop the ability to communicate both orally and in writing in Spanish. This course will ultimately enable students to better understand their language and culture and appreciate another. Includes an introduction to Spanish cultures.

Spanish II

Prerequisites: Spanish I
Grade: 10-12
Length: 1 year

Course Description:

Introduction to current Spanish including oral practice, listening and reading comprehension, and the grammar necessary for spoken and written expression. Includes a continuation of learning about Spanish culture.

COLLEGE COURSES OFFERED – ONLINE THROUGH MISSOURI SOUTHERN
Must Be a Senior w/ 3.25 CUM GPA in 4 Core Areas

Seniors have the opportunity to take classes online through Missouri Southern State University in Joplin. Students enrolled in these college classes are provided time at Silex High School in which to do the work. Students are allowed to take two three-credit-hour classes each semester during their senior year. They could potentially earn twelve college credits through Missouri Southern during the senior year.

In terms of high school credit, each course is .5 unit of high school credit. If two classes are taken each semester, students must select 5 other courses to enroll in during their senior year. They would then earn the maximum amount of credit allowed under normal circumstances. All of these classes are weighted.

The classes through Missouri Southern are available at a very competitive price. They are \$50 per credit hour (as of the 2018-2019 school year) for a total of \$150 per course. Additionally, students must purchase the books for the classes they choose to take, and these can be purchased through a variety of vendors (Amazon, Missouri Southern Bookstore, etc.)

Students may enroll in any combination of the following college classes, given they are certain to complete any high school diploma requirements:

English Composition I
English Composition II

Psychology
Sociology
Art Appreciation
Theater Appreciation
American History I (Early American History)
American History II (Recent American History)
American Government

COURSES OFFERED AT PIKE-LINCOLN TECH CENTER (VO-TECH)

COURSE DESCRIPTIONS

AUTOMOTIVE COLLISION TECHNOLOGY

The 2-year Auto Collision course at Pike-Lincoln is designed to prepare you for an entry-level position in the Auto Body field or continue their education. The fundamentals and related information are covered in the classroom, and the remainder of the class time is spent working and perfecting skills in the shop. Much time is spent on surface preparation and painting. Paint mixing and tinting is also included. Classroom equipment includes spot and MIG welding, hand tools, and frame-straightening equipment and smaller tools and equipment. A spray booth with exhaust is utilized for most painting. An Auto Collision Technician repairs and refinishes vehicle bodies, removes dents, and replaces damaged parts, tightens brackets and loose bolts, and makes other minor repairs. They use a variety of equipment and tools, including drills, riveters, welders, hammers, files, screwdrivers, sanders, measuring tools and power machinery. Some install customized equipment.

AUTOMOTIVE SERVICES TECHNOLOGY

Automotive Services is a 2-year, highly technical program designed to prepare you with an extensive knowledge of automotive parts and their application, and entry into mechanically related occupations or to continue their education. High school students receive 3 credits per year. In addition to training in shop skills, written and oral communications, internal services, and administrative procedures, you will learn how to operate various shop machines including the electronic analyzers, precision measuring devices, brake lathe, wheel alignment equipment, hydraulic press, and hand tools. You may also receive individualized specialized training in areas of special interest, such as diesel engines, service department, air conditioning specialist, small engine technician, and other related areas of interest. This class is in a new, state-of-the-art classroom and shop facility. Articulation with Linn State Technical College is planned so students may earn *free* college credit hours toward an associate degree.

COMPUTER AND NETWORKING TECHNOLOGY

The Computer and Networking Technology course is designed as a one- or two-year study of computer hardware, operating system software, and networking technologies. Students will learn how to install and perform repairs on computer hardware, software, and peripheral equipment

during first year of the course and will have the opportunity to master competencies required for Comptia A+ Certification. During the second year, students will learn how to design, install, and troubleshoot computer networks and will have the opportunity to master competencies required for Comptia N+ Certification. Articulation is available with St. Charles Community College and Linn State Technical College so students may earn up to six *free* college credit hours toward an associate degree.

DIGITAL DESIGN

Digital Design is a two-year program designed to offer training in the areas of desktop publishing, web page design, and digital video. High school students receive 3 credits per year. The course is designed to teach you the elements of design, which will allow you to create marketing/advertising materials, such as brochures, flyers, booklets, etc. You will also create web pages, and a digital video using a state-of-the-art iMac computer. Students learn to use Photoshop, Illustrator, InDesign, Flash and Dreamweaver software. Articulation with St. Charles Community College is available so students may earn three *free* college credit hours toward an associate degree.

HEALTH SCIENCES

Health Sciences is designed as a one- or two-year program (3 credits per year) for high school students. The course prepares the student for entry-level employment and/or post-secondary education in the healthcare field. First-year curriculum concentrates on a core curriculum applicable to all health care fields along with career exploration. An individually-designed curriculum is the focus of the second-year student in Health Sciences which provides the student with further study in a specific field of their choice. Instructional methods include classroom lecture and discussion, laboratory, and clinical rotation sites. Prerequisites: 11th or 12th grade, interest in health career, math skills in computation, measurement, ratio & proportions, reading comprehension & writing communication skills, GPA of 2.0 or above, and organizational skills. Second-year students interested in the nursing field may apply for admission into Pike-Lincoln Tech's Practical Nursing program. (The PN program is open only to high school graduates or those with their GED.)

PRACTICAL NURSING

The Practical Nursing program is an 11-month program, including holidays and vacation time, open only to high school graduates or those with their GED. These daytime classes meet 5 days a week, 6-8 hours a day. The purpose of practical nurse education is to help the student acquire those attitudes, skills and knowledge essential to the role of a competent practical nurse. The scope of practice for the Licensed Practical Nurse focuses on meeting the health care needs of patients/clients in hospitals, long term care facilities, clinics, doctor's offices and in the home. Licensed Practical Nurses work under the direction of the professional registered nurse and/or a licensed physician. The program is fully approved by the Missouri State Board of Nursing and approved by the State Department of Education. After successful completion of the program, the graduate is eligible to apply to write the State of Missouri Licensure for Practical Nurses (NCLEX_PN).

WELDING TECHNOLOGY

This course is designed as a two-year program covering the theory, fundamentals, and basic processes, along with the practical application that builds skills and techniques for welders. Students are prepared to enter entry-level employment, or to continue their education. A welder uses hand-held or stand-alone welding equipment and torches to join or cut metal or plastics. They may fuse together plastic sheets, weld metal parts, or trim metal from objects as well as follow blueprints and work orders. Specialized training is also available for the skilled welder who wants specialized training in the area of MIG, TIG, and plasma cutting. The welding training is geared to the realities of the job market in the surrounding area. Students interested in related careers can learn the foundations in this program. Articulation with Linn State Technical College is available so students may earn three *free* college credit hours toward an associate degree there.

3D MODELING

This course will give you an overview of developing a 3D animation from modeling to rendering. You will learn the basics of surfacing, lighting, animation and modeling techniques, you will explore volumetrics, modifiers particle systems, Booleans and inverse kinematics. Upon completion you will be prepared to develop 3D animation and imagery and end your skills to be a part of a game development, movie production or other 3D/CGI team.

BUILDING TRADES

Students learn how to build a house and other non-commercial structures from the ground up. Students participate in every aspect of the house construction project from layout to framing to roofing to finishing. Students have the opportunity to work with professionals from all areas of the construction industry.

LAW ENFORCEMENT

Students in the Law Enforcement program will learn the basics of police science and criminal justice. Students will be prepared to work with the correctional system, attend the police academy, continue their education, and be ready for the military.