Springfield High School

Course Registration Handbook 2020-2021

February, 2020

Dear Springfield High School Students,

This registration guide provides you with the information needed to develop a program of study for the 2020-2021 school year. This guide contains information on courses, graduation requirements and information related to post-secondary planning.

Springfield High School is fortunate to be able to offer a wide variety of core and elective classes, including several 'College Now' courses which provide students with college credit, and some online options. As you look through this course registration handbook, consider your current interest, abilities and post-high school plans. It is our desire to provide as many classes as we can that will help you meet your academic and post-secondary goals.

Beginning with your 9th grade year, it is important to understand that planning your course of study is truly a cooperative effort. This registration guide is meant to be a tool to help you, but is not meant to replace the valuable communication that must take place between students, parents and school counselor. Be sure to incorporate all of these individuals in your decisions as they will help provide guidance to your academic experience.

We look forward to assisting you in the registration process. If you have any questions, do not hesitate to ask your classroom instructors, your advisor, the guidance counselor or the principal, as they are all happy to offer information regarding specific courses.

Sincerely,

Pat Moriarty, High School Principal and Gigi DeBerg, School Counselor

Springfield Public High School

Graduation Requirements

Students must earn 24 credits in order to graduate from Springfield Public High School. Students must take a minimum of 6 classes each semester. Credits must be earned in the following categories.

2020-2021 School Year

- English/Language Arts 4 Credits
- Social Studies 4 Credits
- Math 3 Credits
- Science 3 Credits
  ~Physical Science
  ~Biology
  ~Chemistry or Physics
- Art/Fine Arts 1 Credit
- Physical Education .5 Credit
- Health .5 Credit
- Electives 8.0 Credits
- 16 Hours Community Service (Senior Year)

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24 Credits Total Academic credits.

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Please Note: Classes denoted with asterisks are required courses for all students. As stated under the graduation requirements, junior and senior students may choose which English class they would like to take and Math students may choose which Math track they would like to pursue.

LANGUAGE ARTS (ENGLISH)

Since all classes, professions, and jobs are affected by the ability to master the English language, the goals of the English department focus on developing communication skills. The study of English involves comprehension of the written word, and writing and speaking with clarity and accuracy. Students will be taught how to improve their mastery of the English language and to read, write, speak, and listen effectively.

***English 9 Course #101A/B**

Grade: 9th Course Length: Year

This course focuses on building strong foundations that will carry students through the next three years of high school. One of the main focuses of this course is speech. Students will give numerous speeches that will help them become better public speakers and communicators. Along with speaking, students will explore different types of literature that will challenge their comprehension and ability to dig deeper into the meaning of the story and how it relates to their life. There will be much writing practice and some essays. Literature that will be read includes *The Glass Castle*, *The Odyssey*, and *Romeo and Juliet*.

***English 10 Course #102A/B**

Grade: 10th Course Length: Year

English 10 builds upon the Minnesota English Language Arts standards in reading, writing, speaking, and listening with the goal of laying the groundwork for college and career readiness. Through the use of various literary genres, students will develop close reading strategies to be able to comprehend and respond more deeply to the message presented and the author's choices in developing the message. Students will be exposed to different writing strategies to develop both informational and persuasive writing. Refining language and grammar choices, developing vocabulary skills, cultivating small group and public speaking skills, and correctly incorporating textual support from reading are important attributes developed in this class.

***English 11 Course #103A/B**

Grade: 11th Course Length: Year

The focus of this course is American Literature that explores events of historical importance from a literary perspective (The Great Depression, The Civil Rights Movement, The Holocaust) while also integrating other fictional pieces to address theme, point-of-view, irony, and symbolism, to name a few. Readings (which the instructor will most often do orally) will be from novels and plays. A number of the assessments will ask for the implementation of sources into academic writing, others will focus on reading comprehension, while some assessments will focus on speaking skills and group work. The curriculum in both 11th grade English courses will cover ACT prep throughout the year.

***Adv. English 11 Course #104A/B**

Grade: 11th Course Length: Year

This course is aimed at preparing students for college and is highly recommended before taking College English, so students must be prepared to do an extensive amount of work outside of class. Students in this course will read American Literature from various time periods to explore events of historical importance from a literary perspective (The Salem Witch Trials, The Civil Rights Movement, and The Holocaust). Students will study novels, short stories, dramas, and poetry, and they will continue to hone their research skills on assessments based on the readings. The major project is a research paper that students will present to the class. Writing will be frequent with emphasis on organization and mechanics. In order to register for this course, students must pass the 10th grade MCA reading test and must show mastery of basic writing skills on a competency essay at the end of 10th grade. The curriculum in both 11th grade English courses will cover ACT prep throughout the year.

***English 12 Course #105A/B**

Grade: 12th Course Length: Year

This course will encourage students to think critically about the world around them and will prepare them for life after high school. Analyzing will be a main tool used while reading and writing. Students will read novels, drama, and poetry ranging from the seventeenth century to the modern day with emphasis placed on personal relation to the text. Literature will include *The Kite Runner*, Shakespeare, and *The Alchemist*. A formal 7-10 page research paper will also be assigned (in conjunction with Economics).

***College English 12 (Online through Northwestern University) Course #106A/B**

Grade: 12th Course Length: Year

Pre-requisite: Adv. English 11

ENG1105 Composition.....4 credits: (PQ: ACT or PreACT English score of 19, Aspire score of 435, SAT or PSAT EBRW score of 510) A writing course designed to prepare students for college-level thinking and writing. Emphasis will be placed on the writing process, including editing skills. Equivalent to ENG1109.

LIT1100 Introduction to Literature.....4 credits: A study of the literary genres of fiction, poetry, drama, and the novel. Emphasis is placed on literary conventions and textual analysis. Equivalent to LIT1109.

College Speech Course #108

Grade: 11th, 12th Course Length: Semester

College-level work for credit in the fundamentals of public speaking is offered in conjunction with Southwest Minnesota State University. The credits are transferable to most college and universities. In cooperation with Southwest, students will learn to design and deliver speeches. Critical thinking skills will be applied to the construction and delivery of a minimum of four speeches. Research, organization, audience analysis and effective speech composition will be taught.

Speech Course #109

Grade: 10-12 Course Length: Semester

Communication skills relating to public speaking situations will be emphasized. Students will construct and deliver speeches for a variety of purposes and audiences. Speaking experiences may include persuasive, informative, impromptu, discussion, debate, and speeches to entertain. Use of technology for presentations and research will be a part of the course. Writing, research, and documentation skills will be emphasized along with oral communication skills.

FOREIGN LANGUAGE

Why study Spanish? It is the second most common language in the United States and the third most commonly spoken language in the world. Studying Spanish helps you to: understand culture, expand career opportunities, improve English language skills and enrich travel experiences.

Spanish I Course # 151A/B

Grades: 9th – 12th Course Length: Year

Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Communication skills will be developed through listening, speaking, reading and writing activities. Students will explore and study the following themes: Personal and Family Life, School Life, Social Life and Community Life.

Spanish II Course # 152A/B

Grades: 10th – 12th Course Length: Year

Students continue to develop proficiency in all four language skills – listening, speaking, reading and writing. They learn to function in real-life situations using more complex sentences and language structures. In addition to expanding on Level I themes, Spanish II students explore and study the following themes: Student Life, Leisure Time, Special Events and Vacation and Travel.

Spanish III Course # 153A/B

Grades: 11th, 12th Course Length: Year

Students continue to develop and refine their proficiency in listening, speaking, reading and writing. They communicate using more complex language structures on a variety of topics, moving from concrete to more abstract concepts. Students gain a deeper understanding of the world around them while studying Right and Responsibilities, Future Plans and Choices, Teen Culture, Environment and Humanities.

Spanish IV Course #154A/B

Students continue to develop and refine their proficiency in listening, speaking, reading and writing. They communicate using more complex language structures on a variety of topics, moving from concrete to more abstract concepts. Students gain a deeper understanding of the world around them while studying Right and Responsibilities, Future Plans and Choices, Teen Culture, Environment and Humanities.

MATHEMATICS

The general purpose of all mathematics courses is to help students to think critically and precisely, and to apply mathematical principles to their lives. The purpose of mathematic concept courses are: to provide the general mathematics foundation needed for success in mathematics, to prepare students to be successful in mathematics courses at vocational trade schools. To meet the minimum math requirements for the state's education standards.

***Geometry Course #202A/B**

Grade: 9th – 12th Course Length: Year

This course follows Algebra I on the college path. It is a required course to graduate from our school and to meet the requirements of the Minnesota Academic Standards. It covers polygons and their properties, reasoning, making conjectures, transformation, congruence, area and volume, similarity, right triangle relationships, circles and spheres. The ability to apply geometry is an important priority of this course. Geometry is a branch of math that connects math to the real world. A year of Geometry is required for admission to most colleges. It is found on all college entrance exams, and it is necessary to understand science, art, architecture, engineering, and many other disciplines.

***Algebra II Course #203A/B**

Grade: 10th -12th Course Length: Year

Algebra II is a course that will cover the mathematical concepts and methods that you will need to know in order to meet high curriculum standards and succeed on high-stakes tests. This course will bring math to life with many real-life applications. Three important aspects of this class are equations, graphs, and applications. These aspects will help you understand how mathematics relates to the world.

***Functions, Statistics and Trigonometry (FST) Course #204A/B**

Grade: 11th, 12th Course Length: Year

Prerequisites: Algebra II

This course follows Algebra II. This class is important for the prospective college student. This course gives strong attention to statistics as well as to the ideas of functions and trigonometry found at the high school level. Statistics are used by people who work in government or journalism, who have to make decisions in business by people who need to analyze or interpret the results of medical or psychological studies, and by people who wish to simply understand the world. A thorough knowledge of functions and trigonometry is essential for calculus, the area of mathematics that is extremely important in engineering and physical sciences.

College Algebra Course #205A

Grade: 12th Course Length: Semester

Prerequisites: Functions, Statistics and Trigonometry (FST)

College Credit: Yes

Description: Math 110, SMSU College NOW program. This class is a study of the fundamental concepts of algebra. Topics include: equations and inequalities; polynomial, rational, exponential, and logarithmic functions and their graphs; and systems of linear equations.

Pre-calculus Course #206B

Grade: 12th Course Length: Semester

This class follows FST and College Algebra. It will prepare the prospective college student for their majors and enable them to possibly test out of college Math courses; thus saving time and money. This advanced course prepares students to be successful in calculus courses and in the discrete mathematics needed for computer science. It provides continual work with manipulative algebra. Mathematical thinking, including work with logic and proof is a theme throughout. Graphing calculators will be used on tests, homework and projects. The course includes analysis of functions, uses of limits, and analytical geometry.

***Algebra Concepts Course# 221A/B**

Grade: 9th – 11th Course Length: Year

Algebra Concepts is the first course on the basic math track. This class is designed to meet the algebra strand of the 2007 Minnesota Academic Standards in Mathematics for high school students. Students will learn to: ***a)*** Understand the concept of functions and identify important features of functions. ***b)*** Recognize linear, quadratic, exponential and other common functions, represent these functions a variety of ways, and then solve problems involving these functions. ***c)*** Generate equivalent algebraic expressions involving polynomials and radicals and use algebraic properties to evaluate expressions. ***d)*** Represent situations using equations and inequalities, solve equations and inequalities, and interpret solutions in the original context.

***Geometry Concepts Course #222A/B**

Grade: 10th – 11th Course Length: Year

Geometry Concepts is the second course on the basic math track. This class is designed to meet the geometry strand of the 2007 Minnesota Academic Standards in Mathematics for high school students. Students will learn to: ***a)*** Calculate measurements of plane and solid geometric figures. ***b)*** Construct logical arguments, based on axioms, definitions and theorems, to prove theorems and other results. ***c)*** Know and apply properties of geometric figures to solve real-world and mathematical problems, and to logically justify results. ***d)*** Solve real-world and mathematical geometric problems using algebraic methods.

***FST Concepts Course #223A/B**

Grade: 11th, 12th Course Length: Year

FST Concepts is the third in a series of three applied courses designed to help high school students develop their math skills and meet the graduation standards. The course will review topics in the traditional areas of Algebra I, Geometry, and Algebra II. The emphasis of the class will be on statistics, probability, trigonometry, and discrete mathematics.

SCIENCE

In a world filled with the products of science, scientific literacy has become a necessity for everyone. Everyone needs to use scientific information to make choices that arise every day. Everyone needs to be able to engage intelligently in public discourse and debate about important issues that involve science and technology. And everyone deserves to share in the excitement and personal fulfillment that can come from understanding and learning about the natural world.

***Physical Science Course #301A/B**

Grade: 9th Course Length: Year

Physical Science is a course designed for students to obtain an understanding of the basic phenomena of physics and chemistry. A large portion of physical science revolves around problem solving. Topics that will be discussed include: the metric system, the process of science, kinematics, the laws of mechanics, gravity, energy conservation, electricity and magnetism, the structure of the atom, the periodic table of elements, chemical reactions and equations, and nuclear energy. Mathematical concepts up to algebra I will be used to analyze and explain phenomena, and experiments will be performed to test various laws.

***Biology Course #302A/B**

Grade: 10th Course Length: Year

Biology is a life science, which gives the students an introduction, with some depth, to the basic concepts of life. Included are the topics of Nature of Science, Cells, DNA, Genetics, Evolution, and Ecology. Basic structure and function of living things are themes throughout the entire year. Microscopic techniques will be used during this class. Emphasis is placed on connecting the themes of Biology and the processes of science throughout the course.

Anatomy and Physiology Course #303A/B

Grade: 11th, 12th Course Length: Year

Pre-requisite: Biology

This is a college prep course that introduces skills and knowledge essential for all health and medical fields. It focuses on the anatomy and physiology of the human body. Topics covered during the year include: introduction to anatomy/physiology: organization of the body, directional terms, homeostasis, and medical terminology and body systems: skeletal, muscular, nervous, circulatory, respiratory, urinary, and digestive systems. Dissection will be used as a learning tool, including sheep organs and fetal pigs as models for human systems. Students will complete the course with a deeper understanding of the interconnectedness of all body systems.

Ecology Course #304A/B

Grade: 11th, 12th Course Length: Year

Prerequisite: Biology

As well as introducing students to their surrounding environment, the course focuses on four main constituents of ecology: soils, forestry, aquatics, and wildlife. Topics covered during the course that are common to all four areas include: ecosystems, populations, energy flow, biodiversity, ecological management procedures, human impacts, and environmental issues. This class is especially recommended for persons going into natural resource occupations or agriculture.

Physics Course #305A/B

Grade: 11th – 12th Course Length: Year

Physics is a course designed for students to obtain the basic understandings of our natural world from a conceptual perspective. This course will demonstrate how science is related to the everyday happenings around us using laboratory and problem solving techniques. Laboratory activities and applications will focus on a variety of topics. The first semester includes the study of kinematics, mechanics, energy, work, power, momentum, and rotational dynamics. The second semester focuses on non-mechanical topics such as thermal energy, electricity & magnetism, optics, waves, and an introduction to theoretical physics. Students will need a strong math background. Algebra II is recommended, but some trigonometric applications will be used. Throughout the course, we will use Vernier Lab-Pro and related equipment to collect and store data for investigations.

Chemistry Course #306A/B

Grades: 11th – 12th Course Length: Year

Chemistry is a course designed for students to obtain the basic understandings of our natural world from a microscopic perspective of matter with an emphasis on the interaction of substances. Mathematical applications through Algebra I and laboratory experiments will be utilized to explain and demonstrate phenomena. This Chemistry course focuses on preparing students for their introductory college chemistry classes. Laboratory procedures are designed to assist students with a smooth transition to the college laboratory setting. Topics in Chemistry build on one another; information in the first semester will be used to understand, explain, and perform information in the second semester.

Physics/Chemistry Course #307A/B

Grades: 11th – 12th Course Length: Year

Phys/Chem is a hybrid course of Physics and Chemistry. Students will obtain the basic understandings of our natural world from both a microscopic perspective of matter, and a conceptual perspective of nature. The emphasis of this course will be on conceptually understanding the topics of Physics and Chemistry, and mathematical applications through Algebra I and laboratory experiments will be utilized to demonstrate and explain phenomena. Physics topics will be the emphasis during the first semester, and Chemistry topics will be the emphasis for the second semester.

Forensic Science Course #309A/B

Grade: 10th – 12th Course Length: Year

Students will understand how the scientific method plays into the role of a forensic scientist. Students will demonstrate how to analyze and collect evidence at a crime scene. Students will accurately document a crime scene. Students will understand some of the various techniques for scientifically analyzing different types of evidence so they may be used in a court of law.

SOCIAL STUDIES

The Social Studies Department provides a variety of opportunities for students to explore the social world. Courses deal with what has happened in the past, why those events occurred, how they occurred, and what effect they have had on the world. Students study government and economic systems and their relationships with each other in the past, present and are given the tools to predict future events. Students will recognize their rights and responsibilities as citizens in a democracy and will explore other systems of government. Students study groups and their interaction and how individuals and groups make decisions. Students gain perspective on their world and its events and are given the tools to become active members in the world community.

***Civics Course #401A/B**
Grade: 9th Course Length: Semester
The study of American Civics will focus primarily on citizenship, as well as federal, state and local governments. Students will also study the environmental, social and economic changes that our country will face in the future, our economy and career education.

Human Geography Course #403B
Grade: 9th Course Length: Semester
World Geography is the study of various regions of the world. Students will examine the five themes of geography and incorporate them into the study of various areas of the world. Students will complete a number of projects as well as examining current events from various locations of the world.

***American History Course #402A/B**
Grade: 10th Course Length: Year
The study of United States History through the exploration of the following themes in their political, social, economic and diplomatic contexts: Reconstruction – The Development of Modern America – Economic Crisis and Recovery - The Greatest Generation, Modern America: Domestic Growth and World Responsibility – Cold War and The American Dream – The Terror Threat - Current Change and Future Possibilities.

***World History Course #403A**
Grade: 11th Course Length: Year
World History is the study of how the world has evolved and changed through history. The course is divided into several units with hand-picked case studies that are used. Prehistoric man through modern terrorism is examined.

***American Government Course #404A**
Grade: 12th Course Length: Semester
Documents of Government: Students will explore the documents that created and maintain America as we know it. The Justice System: Students will explore the processes of the criminal justice system. Students will study personal freedoms and responsibilities of citizens, discuss crime and punishment, and the adult criminal justice system. Business Law: Students will study the ideas involved in civil litigation, tort law, negligence, and civil lawsuits will be explored. Government by the People: Students will study elections, campaign financing, and special interest groups.

***Economics (621) Course#404B**
Grade: 12th Course Length: Semester
The study of economics as a science and as a set of definable principles that guide the decisions we make as individuals and as citizens of our nation. The Economic Problem – Scarcity, Decision Making, Opportunity Costs, Trade-offs, Economic Systems, Microeconomics – Productivity, Demand, Supply Markets and Prices, Elasticity, Competition, and Monopoly. Macroeconomics – Money and Exchange rates, Federal Reserve, Inflation and Deflation, Banking and Credit, Unemployment, Fiscal Policy, Taxes, GNP. Global Economics – International Trade, Absolute and Comparative Advantage. Practicing Economics – Entrepreneurial Decisions, Environmental Decisions, Wages and Salaries, Protectionism.

College Psychology Course # 405A
Grade: 11th-12th Course Length: Semester
College Credit: Yes
This course surveys content areas of general interest in psychology. Topics include major schools of thought in psychology, development, states of awareness, learning, memory, health and stress, personality, abnormal behavior, psychotherapy, and social issues. Students must meet entrance qualifications to take course.

College Sociology Course # 405B
Grade: 11th-12th Course Length: Semester
College Credit: Yes
A survey of basic concepts and research areas in sociology, including sociology origins, major theoretical perspectives, research methods, culture, social structure, socialization, group processes, formal organizations, deviance and social control, stratification, racial/ethnic and gender inequality, social institutions, demography, collective behavior and social change Students must meet entrance qualifications to take course.

World Studies Course # 406A/B
Grade: 10th-12th Course Length: Semester
This is a semester course in which we will take a historical and contemporary look at issues in international politics, U.S. foreign relations, U.S. domestic policy, and the global economy. This course provides students an opportunity to familiarize themselves with the issues that frequent newspapers, television news, and other popular media and fuel the controversies that both divide our population here in the United States and around the globe. The course will be flexible in nature to accommodate significant current events, but the general direction of the class will be to study how the world developed to what it is today and where it is going next. In addition to the course content, the common core standards will be addressed throughout all units.

American Studies Course # 407 A/B
Grade: 10th-12th Course Length: Semester
This is a semester course in which we will take a historical and contemporary look at events and issues in U.S. History, U.S. domestic policy and U.S. foreign relations. This course provides students an opportunity to familiarize themselves with the issues that frequent newspapers, television news, and other popular media and fuel the controversies that both divide our population here in the United States and around the globe. The course will emphasize significant events in American history and how they have impacted the world today. However, the class will be flexible in nature to accommodate significant current events. Themes include; American Revolution, Westward Expansion, the Civil War, Prohibition, WWII, the Cold War, Foreign Policy, and Peace at Home

HEALTH, PHYSICAL EDUCATION AND FITNESS

The Physical Education and Health Education courses offered to students are designed to educate the "whole" individual; it is *lifestyle education* for a *lifetime.* All courses are based on the National Health and Physical Education Standards which address the need for teaching necessary knowledge, attitudes and beliefs, and providing essential skill practice that promote healthy behaviors. The strategies for self-responsibility, goal-setting, problem-solving, risk-identification and reduction skills, as well as consumer literacy are necessary in order to make healthy decisions at both the personal and community level. Students will learn basic lifetime sport activities for recreation and leisure, physical training strategies, how to implement a personal health plan, evaluate progress, and understand how personal health goals are influenced by changing information, abilities, priorities and responsibilities.

***Physical Education Course #501**
Grade: 9th Course Length: Semester
This course will emphasize the area of forever fit. The students will participate in a variety of actual game activities and other activities that will be part of fitness programs in the future. Units offered: football, volleyball, basketball, soccer, ultimate frisbee, floor hockey, badminton, kickball and cooperative games.

Lifetime Fitness I Course #502A

Grades: 9th – 12th Course Length: Year

This semester long courses is designed to allow students to discuss, create and implement an individual fitness and nutrition plan as well as participate in lifetime activities. Fitness I, Fitness II and Personal Fitness are designed to be interchangeable courses and give the student a chance to learn how to and improve their overall fitness and health in different areas of their lives.

Lifetime Fitness II Course #503A/B

Grades: 10th – 12th Course Length: semester

This semester long courses is designed to allow students to discuss, create and implement an individual fitness and nutrition plan as well as participate in lifetime activities. Fitness I, Fitness II and Personal Fitness are designed to be interchangeable courses and give the student a chance to learn how to and improve their overall fitness and health in different areas of their lives.

Lifetime Fitness III Course #504A/B

Grades: 11th – 12th Course Length: semester

This semester long courses is designed to allow students to discuss, create and implement an individual fitness and nutrition plan as well as participate in lifetime activities... Fitness I, Fitness II and Personal Fitness are designed to be interchangeable courses and give the student a chance to learn how to and improve their overall fitness and health in different areas of their lives.

Advanced Physical Education Course #505

Grades: 10th – 12th Course Length: semester

This course will allow students to continue to develop strategies, skills and improve fitness levels through a variety of team activities. The students will also be provided with an opportunity to learn and participate in lifelong activities, to keep students active throughout their life after high school. Units to be covered: Flag football, soccer/speedball, tennis, pickle ball, volleyball, basketball, badminton, paddleball, ultimate Frisbee, fitness testing, table tennis, bean bags, floor hockey, and other cooperative activities. Additionally, Students will create and teach an unit plan from one of the units listed above.

***High School Health Course #521**

Grade: 9th Course Length: Semester

Health is based on the National Health Standards and is a required course. The course is based on the concepts of holistic health and wellness. It approaches health topics with factual information so students can make informed decisions and provides opportunities for students to practice these skills. It introduces the topics of character, mental health, self-esteem, goal-setting, decision-making, stress, depression, eating disorders, suicide, death and grieving, the human reproductive system, issues of sexuality including abstinence, pregnancy, STI's, teen dating, sexual harassment, and sexual abuse. Course grading: Students are expected to complete a variety of assignments and participate in daily activities including reading assignments, current health articles, group discussions, videos, projects, quizzes, and teacher-generated assessments.

MUSIC

Music allows us to celebrate and preserve our cultural heritages, and also to explore the realms of expression, imagination, and creation resulting in new knowledge. Music education improves the development of higher order thinking skills, concentration, memory, and interpersonal skills. Therefore, every individual should take the opportunity to learn music and to share in musical experiences.

High School Band Course #601A/B

Grade: 9th – 12th Course Length: Year

The student must show that they have the ability to successfully participate at the performance level of the band. Each student is expected to develop his/her individual talent to the highest level possible. Students are scheduled for lessons which allows the instructor to work with students in small groups and/or individually. Students are graded on their ability to perform assigned material and band repertoire with an emphasis on improvement. All band members participate in the State Solo and Small Ensemble Contest as well as Large Group Contest. The development of the individual players as soloists is stressed and has resulted in a high quality musical experience for all participants. Members of the Senior High Concert Band will also perform as a Pep Band during various athletic seasons including volleyball, football, and basketball. The Pep Band follows the team into tournament play as prescribed by Region 3 policy. Senior High Band members are also eligible to participate in Jazz Band, an extra-curricular activity.

Senior High Choir Course #603A/B

Grade: 9th – 12th Course Length: Year

Membership is based on past vocal achievement as well as audition results. Concert music of many different styles and languages will be rehearsed and performed at three concerts throughout the year. Basic music theory is also incorporated during rehearsals. Concert Choir also participates in the large Group Contest in March. Students are also required to have a specified number of lessons per quarter. Students are encouraged to participate in the Solo and Small Ensemble Contest in the spring.

ART

The ultimate challenge for American education is to place all children on pathways toward success in school and in life. Through engagement with the arts, young people can better begin lifelong journeys of developing their capabilities and contributing to the world around them. The four basic components of all art classes at Springfield Public Schools are:
Perception: The process of being able to talk about personal artworks and the works of others and learning the basic skills and knowledge to express their ideas and feelings creatively. By learning the elements and principles of art and design, students develop their visual awareness.
Creative Expression: Studio projects and activities give students the opportunity to create works of art from direct observation, experiences, and imagination. Students are challenged to create visual solutions using various media, tools, and techniques including digital media.
Historical and Cultural Heritage: Throughout the program, works of art from various historical periods and diverse cultures are presented and discussed to encourage student understanding of the historical and cultural heritage of the arts.
Evaluation: By interpreting and evaluating their own artworks and those of others, students apply the art criticism process and the major theories of aesthetics. Students are given opportunities to form conclusions about formal qualities, historical contexts, artistic intent, and learning.

Introduction to Art & Design Course # 612A
Grades: 9th -12th Course Length: Semester
This semester long course introduces students to the Elements of Art and Principles of Design while developing a variety of art skills. Studio experiences in the classroom will give students opportunities to experience a variety of media (pencil, pen, ink, charcoal, pastel, watercolor, tempera paint, collage, calligraphy, wire, book-making, jewelry and crafts from other cultures.) while developing student's individual style and creative problem solving skills. Students will demonstrate their ability to respond, to analyze and to interpret their own artwork and the work of others through discussions, critiques, and writings.

Drawing Course #613B
Grades: 9th -12th Course Length: Semester
The semester long drawing course will focus on learning to draw basic and complex objects from observation and creating original, imaginative drawings. The course may include sketching, landscape drawing, architectural drawing, portrait drawing, cartooning, drawing enlargements, machinery, nature, automobiles, and various other subjects. Special attention is given to right-left-brain functions as they relate to drawing skills. Linear perspective, shading to show form, incorporating color and the elements and principles of art and viewing and analyzing drawing throughout history will be also given attention throughout the course. Many different drawing media will be explored including graphite, colored pencil, crayon, marker, pen and ink, charcoal, oil pastel, and chalk pastel.

Painting Course #614A
Grades: 9th-12th Course Length: Semester
This semester long painting course will be devoted learning painting techniques and styles including acrylics, oils, watercolors and airbrushing. Students will have the opportunity to study paintings from the masters, learn about seeing and mixing color, and imitate different styles and technique of painting. Students will work from real life observation, found imagery and imagination.

Pottery and Sculpture Course # 615B
Grades: 9th-12th Course Length: Semester
This semester long course will be devoted to learning pottery and sculpture techniques to create both functional and decorative art works. Students will study the forming, decorating, firing and glazing of clay to create original art works. Students will build pottery by hand through the coil, slab and sculpting methods and will also throw pottery on the potter's wheel. They will create and decorate pottery by the slip casting method. 3D sculpting methods with other materials, such as foam core and found objects, will be explored as well.

Digital Imaging (Graphic Design) Course #617A/B

Grades: 9th – 12th Course Length: **Year**

This is your chance to learn state of the art design techniques using Adobe CS6 software including Photoshop, Illustrator, Flash, Dreamweaver and InDesign. This course is designed for students who want to learn new skills in creating designs and art works with the computer or expand their knowledge of art and technology based on digital photography, digital design, page layout, motion graphics and digital movie making. The course covers the use of digital cameras, digital video, scanners, the internet and clip art as sources for creating and the manipulation of digital images. Creative designing and computer technical skills will be developed using computer labs and design software. Special emphasis will be placed on looking at career opportunities in the graphic design, motion graphics, and digital and imaging fields.

Advanced Digital Imaging (Graphic Design) #618A/B

Grades: 10th – 12th Course Length: Year

Pre-requisite: Digital Imaging/Graphic Design

This is your chance to learn state of the art design techniques using Adobe CS6 software including Photoshop, Illustrator, Flash, Dreamweaver and InDesign. This course is for students who have completed Digital Imaging/Graphic Arts and are interested in learning new skills in creating digital designs, art works, motion graphics, and video production. Advanced computer design skills and advanced projects are planned to allow the student to acquire college level designing abilities using state of the art software. The course covers advanced techniques in the use of digital cameras, digital video, scanners, and illustration software and as sources for creating and manipulating digital images. Special emphasis will be placed on looking at career opportunities in the graphic design, motion graphics, and digital design and imaging fields. Students will also participate in a job shadowing experience in the graphic design field.

Career and Technical Education Courses

Employers are now seeking workers who demonstrate workplace readiness skills. Among those skills necessary for obtaining and retaining a job are the ability to use communication skills to meet challenges in the workplace, timeliness, work ethic, team, literacy and computer skills in addition to character traits of persistence, dependability, self-control, curiosity, and conscientiousness. These basic employability or SCANS skills, which are seen by many employers as more critical than brainpower in achieving success in the workplace, are at the core of all career and technical courses (Agriculture Food and Natural Resources, Business, Family and Consumer Science, Industrial Engineering Technology and Work-Based Learning) where content is taught in a project-based, work-place preparation atmosphere.

AGRICULTURE, FOOD, AND NATURAL RESOURCES

Twenty-four million Americans (one in five eligible workers) work in the agriculture industry today, making it the largest employment sector in America. However, many people think that means that one in five Americans is a farmer; that is not true! Actually only one percent of the 24 million employed in agriculture are farmers! Nearly all jobs in the agriculture industry deal with over 300 careers that provide services or products to farmers and/or get the farmers' products processed, marketed, and sold to the consumers. So if you're interested in a job that helps to feed and clothe the world, these classes are for you.

Intro to Ag, Food, Nat. Res. Course # 701
Grades: 9th-12th Course Length: Semester/Year
This class will explore some of the careers and skills used by people working in agriculture. Units include but are not limited to the areas of horticulture, food and animal science, agri-business, Ag careers, and character development. This course will also utilize the many learning opportunities available through the FFA to enhance the students' learning. Lastly, students will conduct their own self-guided agricultural learning activity (SAE) in which they will be responsible for setting their own learning objectives and maintaining records of their progress.

Horticulture Course # 702
Grades: 9th-12th Course Length: Semester/Year
Pre-requisite: Intro to Ag
Horticulture is a booming field of agriculture. The class will explore the many facets of this field such as: plant propagation, greenhouse and nursery production, landscape design and installation, turf grass management, hydroponics, and floriculture design. As in all Ag courses, FFA and SAE will be an integral part in the students' learning.

Natural Resources Course # 703
Grades 9th-12th Course Length: Semester/Year
Pre-requisite: Intro to Ag
This course will deal heavily with the identification, management, and feeding/reproduction characteristics of upland game birds, water fowl, sport fish, and small and large mammals. We will also look at habitat/watershed management in addition to the role that the DNR, EPA, hunters & fishers, and farmers have on our natural resources. As in all ag courses, FFA and SAE will be an integral part in the students' learning.

Agri-Science and Bio-Technology Course #705A/B
Grades: 10th-12th Course Length: Semester/Year
Pre-requisite: Intro to Ag & Biology
Agriculture, by its nature, is a science. Everything in the industry deals with biology and chemistry on nearly a daily basis. The major focus of this class will be animal and plant science and the role biotechnology is playing in the industry. Additionally, there will be units on soil chemistry & formation, food science, natural resource science & conservation and renewable resources. We will also look into the world of precision agriculture and the impact GIS/GPS is having on our world food production. As in all ag courses, FFA and SAE will be an integral part in the students' learning.

Agri-Business Management Course # 706
Grades: 10th-12th Course Length: Year/Semester
Pre-requisite: Intro to Ag
Agriculture is a highly competitive industry. Without the skills taught in this class, many businesses struggle and/or fail. In this class, we will learn to do partial budget analysis, income tax preparation, futures & options hedging, cash flow statements, enterprise analysis, real estate purchasing, risk avoidance and more. In addition, all students in this class will compete in a national commodity marketing competition through the Chicago Board of Trade. We will also complete many units in a national character education curriculum, such as leadership, integrity, work ethics, volunteering, public speaking, and many more.
As in all Ag courses, FFA and SAE will be an integral part in the students' learning.

Agricultural Educ. Guided Study Course #708A/B
Grades: 11th, 12th Course Length: Year/Semester
Pre-requisite: Intro to Ag
This class is for students who want to maintain their FFA membership but have already taken all of the Ag classes offered or cannot fit an Ag class into their schedules. Permission from the instructor and principal are required to take this class, and the course content will be agreed upon by the student, teacher, and principal on an individual basis.

Food Science & Technology Course #904
Grades: 10th – 12th Course Length: Semester
We run on food as our energy, but what goes into it? Why is a lemon sour? Is my food safe to eat? How can I make this food last longer? Is the protein shake really healthy? We will answer all of these questions and more as we explore the many aspects of the food industry. Learn about food safety, product development, food choices, nutrition, biology and chemistry of food, and some basic food preparation skills. We will venture beyond our borders to compare and contrast how all of these things are done in various countries. As in all Ag courses, leadership and experiential learning will be an integral part in the students' learning.

INDUSTRIAL & ENGINEERING TECHNOLOGY

Every single thing you see around you that is not part of the natural world is an example of technology. Nearly everything you see has been invented, designed, produced, and refined by people working in the field of technology. So if you ever look at your toaster and wonder how it works, look at a computer and wonder how it was made, or stare at a sports car and wonder what makes it go fast, these classes will help you find your answers. Because Technology Education is all about: Understanding technical systems and their applications, being able to analyze and solve technical problems. Understanding effective management of resources, being able to assess and prepare for occupations. Being familiar with a variety of technical occupations. Being able to apply cooperative skills in the work place. Being able to apply basic skills from other subjects (such as science, math, and language arts) to technology and technical occupations. The process of applying the applications and skills of the technology being presented. (Hands-on learning).

Mechanics Course # 704A/B

Grade: 9th – 12th Course Length: Year

After this course students will be proficient in DC circuit boards, Mechatronics, CNC, small engine repair, basic automobile repair, hydraulics, electric motors, and general safe tool use. At the end of the course students will be able to work on an independent project.

Metals Course # 709A/B

Grade: 9th – 12th Course Length: Year

After this course, students will be proficient in sheet metal (cutting, bending, riveting and spot welding), welding (oxy-fuel, stick arc, MIG, and TIG), cutting (oxy-fuel, and plasma), machining (mill, lathe, and CNC), gas forging and general safe tool use. At the end of the course, students will be able to design and build their own metal project.

Construction Course #751A/B

Grade: 9th – 12th Course Length: Year

This course covers units on construction site measurement & leveling, concrete pouring, stud wall framing, electrical wiring, basic plumbing, sheet rocking, completing basic household repairs, and doing basic household improvements (such as putting in a garbage disposal, ceiling fan, or laminate flooring). We will also have units on comparing and taking out a mortgage, making appraisal values, paying property taxes.

Woodworking Course #753A/B

Grade: 9th -12th Course Length: Year

This class will begin with a review of safe tool operation and woodworking principles. The students will then select a product they would like to mass produce using lean manufacturing principles; next they will find or create a construction outline, a product flow chart, a bill of materials, and sales literature to market it. Finally, the students will spend a majority of the semester working in an assembly line fashion to make their product(s), and they will also keep production records for their business. Students will then take the knowledge they gained in the fall semester and put that to use on a personal project. The students will begin by designing their own product. During the actual construction of the project, they will be responsible for proper record keeping so that they can turn in an accurate bill of materials and a step-by-step construction outline.

Engineering Drafting & Design Course #755

Grade: 10th – 12th Course Length: Year

Students will learn mechanical engineering. They will utilize those principles to design a number of 2 & 3-dimensional parts and assemblies using CADD (AutoCAD, Inventor and/or ProEngineer). With these parts and assemblies, they will make engineered and exploded view drawings. Also as a part of this class students will compete in the Super-Mileage Car Competition or a different engineering project.

Architectural Drafting & Design Course #756

Grade: 10th – 12th Course Length: Year

In this class students will learn the principles of residential architecture including styles, codes, and layout. They will utilize those principles to design a number of 2- and 3-dimensional homes using CADD (AutoCAD, Revit and/or Chief Architect). This includes plot layouts, floor plans, and elevation drawings. As a part of this class students will compete in the Technology Challenge.

Basic Homeowner Course #754

Grades 10-12

This class introduces students to the joys and difficulties in owning their own house. It introduces students to the basic skills they need to do basic electrical repair, repairing cosmetic damage, small plumbing obstacles, and other basic needs in a house. We will dive into some basic car maintenance from checking & changing oil to repairing a flat tire. This class is designed for students who have some to little experience in automotive and construction and want to be able to competently "adult" when the need arises.

Home Decoration Course #757

Grades 10-12

This course is a beginning course that will stress planning and construction of small projects used in home decorating. Students will pay costs of take-home projects. This class will be taught primarily in a lab setting with some classroom instruction at the beginning of the term. In this class students will learn about the safety of using power and hand tools in the shop setting. They will learn about the precision needed to make an enhancing decorations or small functional accessories for the home. Through this class, students will gain knowledge of home and decorating methods and styles.

*Not for students who have advanced shop experienc

BUSINESS

The goal of the Springfield High School Business Department is to prepare students to enter the work force following graduation as well as provide training needed for students entering various college business programs. In addition, students taking our courses will gain necessary life skills such as personal budgeting, written and oral communication, computer utilization and time and money management.

Microsoft Office Course #801

Grades: 9th-12th Course Length: Semester

Microsoft Office 365 will be used to cover the following areas:

Word

o Editing documents and using tables o Creating reports and newsletters o Mail merge o World Wide Web usage

PowerPoint

o List and graphics o Hyperlinks o Transition, Animations, and Timing o Enhancing o Finalizing/Publishing

Excel

o Functions, Formulas, and Charts o Charting data o Advanced Functions, Pivot Charts, and Pivot Tables o Advanced Printing, Formatting, and Editing

Access

o Working with Queries o Working with Forms and Reports

Career Exploration and Projects as time allows

Marketing I Course #803 A/B

Grade: 9th – 12th Course Length: Semester

This course will help students to become better consumers. This course will cover marketing for today and tomorrow, social aspects of marketing, marketing economics, basics of marketing, research, customers, competition, e-commerce/viral marketing, developing a marketing plan and strategy, developing successful products, and meeting the service needs. Through the various brand management and marketing concepts students will become better aware of how products and services are marketed to various target groups. **Areas of coverage:**

*Marketing Today
*Marketing Begins with Economics
*Marketing Information and Research
*Competition Is Everywhere
*Developing a Marketing Strategy and Marketing Plan
*Services Need Marketing
*Socially Responsive Marketing
*The Basics of Marketing
*Marketing Starts with Customers
*E-Commerce and Virtual Marketing
*Developing Successful Products
*Careers in Marketing

Marketing II Course #803 A/B

Grade: 9th – 12th Course Length: Semester

This course will continue coverage of Marketing in the following areas (Marketing I is not a prerequisite of Marketing II):

*Business-to-Business Marketing
*Getting Products to Customers
*Being Creative with Advertising
*Marketing in Global Economy
*Marketing Requires Money
*Take Control with Management
*Effective Promotion Means Effective Communication
*Determining the Best Price
*Selling Satisfies Customers
*Managing Risks
*Entrepreneurship and Marketing
*Planning Your Future in Marketing

* Project and Written Marketing Plan for Global Marketing

A variety of activities will be used to encourage an understanding of the marketing.

Personal Finance Course #804

Grade: 9th – 12th Course Length: Semester

This course consists of video lectures (Dave Ramsey) and discussions. A simulation covering the following topics will provide hands-on training:

*Time Management and Health
*Budgeting and Saving
*Buying a Car
*Choosing and Balancing a Checking Account
*Fixing Your Credit
*Using Online Banking
*Introduction to Investing
*Diversification
*Buying a Home
*Finding a Job
*Finding an Apartment
*Shopping
*Getting a Credit Card
*Education and Advancement
*Paying Your Taxes
*Risk vs. Return
*Investing for Retirement
*Insurance

Information Technology Exploration Course #805

Grade: 9th – 12th Course Length: Semester

Students will gain prerequisite knowledge necessary for a career in the field of information technology. Students will be exposed to opportunities and skills needed for a career in Information Technology. Concepts covered include:

Careers in Information Technology

Computer Literacy

o Hardware o Operating Systems o Networks o Software and App development o Writing Code
o Command Line o Small Basic o Introduction to Graphics o Programming Techniques o Security o Business Analytics

Desktop Publishing Course # 807

Grade: 9th – 12th Course Length: Semester

Desktop Publishing is an application used to develop professional looking documents where text, graphics and design can be applied to produce quality business projects. The software utilized in the class is MicroSoft Office Suite. Emphasis for projects is directed toward business and industry documents and forms such as:

*Letterheads *Purchase orders *Pricing lists *Sales flyers *Internal newsletters *Broadway playbills
*Menu *Tri-fold travel brochure *Autobiography/storybook *Magazine cover of original design
*Newsletter—tabloid *Replicate newspaper ad * Business Proposal *School Newspaper
*Reformatting of historical document using text threading and eliminating widows and orphans

Web Design Course # 808

Grades: 9th-12th Course Length: Semester

This course provides an introduction to programming with HTML, CSS, and XHTML. Topics include creating a web page with links and tables, creating image maps, and working with style sheets. As a student in this course, you will learn the most important topics of designing and creating a functioning web page. You will get an introduction to creating a web site and learn about adding text and links. The lessons get more and more advanced, covering styling text, working with pictures and enhancing a design with CSS. You will also learn about site navigation, publishing your web site and how to work with tables and forms. Finally, you will learn how to work with behaviors, use code tools and advance design with CSS.

Accounting Course # 809A/B

Grades: 9th – 12th Course Length: Year

This course is designed to give students the skills needed to operate and evaluate a double-entry accounting system. It is designed to cover a one ownership service business, a partnership such as a retailing business, payroll accounting, checking accounts, and to provide the necessary foundation to pursue advanced accounting areas and classes. It is also for those students who wish to begin preparation for careers in the business field. This is a core business course at college for anyone going into any business field. This course will also aid the student in handling his/her own personal finances and/or personal business.

Hospitality and Tourism Management Course # 812

The hospitality and tourism industry is the nation's number one retail employer. This course introduces students to this field, which not only has domestic but global possibilities for employment with a continued projected growth rate to 2026. The curriculum covers everything from front office and housekeeping management to marketing and sales, food and beverage, general management, and leadership skills.

Student Technology Guidance Course #811A/B

Grade: 9th – 12th Course Length: Semester/Year

This course is designed to prepare powerful teams of Student Technology Leaders to work with educators, peers and IT staff to integrate technology in ways that improve student learning. Students will develop and explore themes of digital literacy and digital leadership within the high school setting to enhance and build innovative, collaborative and critical thinking skills related to digital citizenship and technology. The course is also designed to encourage student leadership in technology and to foster and support students to be leaders in their school community and abroad.

Students will begin with the basics of learning computer systems and software, and learn how to build, create, modify and repair computer systems through collaborative problem solving. Students will also be highly involved in coursework that teaches students to be digital leaders, responsible consumers, model citizenship and be "active" participants in digital literacy in terms of using, managing and assessing information and technology. Students will also be part of an advanced technology support team designed to work collaboratively with peers and staff to help with technology questions, troubleshooting, implementation and basic support in classes.

WORK-BASED LEARNING

More schools today are offering programs where students can learn about the world-of-work by being involved as a working student in a realistic job environment. This program will give the student a distinct advantage after graduation. These include, the ability to explore different career fields, an opportunity to develop the basic employment skills and a work experience record to be used when you finish school, and finally an opportunity to learn firsthand what employers really want and expect in an employee.

Work-Based Learning (School/Business Partnerships) 2 hours for (1) Semester Course #790

Grade: 12th Course Length: Semester

Work-based Learning is an educational program that uses workplaces to structure learning experiences that contribute to the social, academic, and career development of students.

Program Areas and Possible Pathways

The following list does not include all areas, but provides an idea of what type of work experience could be created. Students need to have a special interest in the area in which they are applying for their work experience. Also, students need to have taken preparatory courses in the area in which they wish to work. For example, if a student is interested in Animal and Plant Science, s/he should have taken ag and ecology. If interested in Food Service, s/he should have taken Food Science & Technology and have a strong background in science, etc.

1. Agriculture
2. Business and Marketing
3. Family and Consumer Science
4. Health Occupations
5. Service Occupations
6. Technical Careers