

Springfield Catholic High School



*Course Descriptions
2012-2013*

SPRINGFIELD CATHOLIC HIGH SCHOOL

SELECTION OF STUDIES HANDBOOK

Springfield Catholic High School challenges its students to grow in faith, to prepare to become responsible members of a global community, and to acquire the skills and knowledge necessary to continue to higher education. The curriculum has been carefully designed to challenge, direct, and encourage within the context of a caring Christian community. The academic program consists of core courses required of all and a variety of electives from which students may choose based upon their individual talents, interests, and goals for the future. The process of scheduling classes is one of the most important things you and your child will do over the next four years. When making out your child's schedule carefully consider all of the course options available and assist your child in making choices that are best for them. Feel free to contact Dr. Amy DeMelo at ademelo@scspk12.org or Mr. Scott Guilkey at sguilkey@scspk12.org. You may also call (417) 887-8817 to speak with them.

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Graduation Requirements

Courses	Required Credits
Theology	4
English	4
Social Studies	4
Math	4
Science	3
Foreign Language	0
Public Speaking or Debate/Forensics	½
Physical Education	1
Health	½
Personal Finance	½
Fine Arts	1
Computer Science	½
Electives	9
Total	32

College Prep Recommendations

Religion	4 Units
English	4 Units
Social Studies	4 Units
Math	4 Units
Science	3-4 Units
Foreign Language	2-4 Units
Public Speaking or Debate	1/2 Unit
Health	1/2 Unit
Physical Education	1 Unit
Fine Arts	1 Unit
Practical Arts	1 Unit

Technical Prep/Work Recommendations

Religion	4 Units
English	4 Units
Social Studies	4 Units
Math	2-3 Units
Science	3 Units
Public Speaking or Debate	1/2 Unit
Health	1/2 Unit
Physical Education	1 Unit
Fine Arts	1 Unit
Practical Arts	1 Unit

Grading Scale

Grade	Percent	Point Value	Grade	Percent	Point Value
A	100-94	4.0	C	83-78	2.0
A-	93	3.7	C-	77	1.7
B+	92	3.3	D+	76	1.3
B	91-86	3.0	D	75-71	1.3
B-	85	2.7	D-	70	0.7
C+	84	2.3	F	Below 70	0.0

Course Level Descriptions

Advanced Placement: Advanced placement students are offered the opportunity to engage in college level study in several disciplines as part of the College Board's Advanced Placement program. In order to enroll, students must demonstrate superior aptitude and achievement and a willingness to commit to considerable independent study. *Admission to these courses is selective; students must have experienced significant academic success in preceding courses.*

Weighted Courses: Weighted courses are designed to challenge students who have demonstrated a high level of academic aptitude and achievement. Students should be willing to commit to considerable independent study.

Course Weights

Weighted courses and Advanced Placement courses are given additional weights to determine grade point averages. Advanced Placement Courses will receive 1 extra grade point. Weighted courses will receive .70 extra grade points.

Weighted Courses .70 extra grade points	Advanced Placement Courses 1 extra grade point
Pre-Calculus (wg)	English III AP
College Algebra (wg)	English IV AP
Chemistry II (wg)	US History AP
Anatomy & Physiology (wg)	Psychology AP
Physics (wg)	World History AP
French III (wg)	Calculus AP
Spanish III (wg)	Biology AP
Art III (wg)	Chemistry AP
Art IV (wg)	Computer Science AP
Physics II (wg)	Music Theory AP
	Environmental Science AP

Course Listings

This catalog provides information about all course offerings. Students should read this information very carefully before meeting with their academic advisor.

THEOLOGY

H0101 Catholic Christianity

Required **Semester 1** **1/2 Credit** **Grade 9**

Faith development and religious study at the ninth grade level is designed to help ninth grade students focus on the gift of their present identity as high school students and from this perspective, examine the faith that has been handed to them by their parents and continue the process of discerning the faith that will be theirs. The starting point of this course is the life experience of the student as such issues as sexuality, cultural influences and values, moral decision making, and a general overview of faith and religion are explored. After this initial exploration, the basic beliefs and practices of the Catholic faith are examined with an emphasis on Catholic Christian spirituality, an introduction to Christian morality, social justice, the sacraments, and the liturgical year.

H0102 Hebrew Scripture

Required **Semester 2** **1/2 Credit** **Grade 9**

Faith development and religious study in the second semester of the ninth grade year is designed to help the student appreciate the links between Judaism and Christianity. The stories of Hebrew Scriptures tell the faith story of the Jewish people and prepare the students to understand the Jewishness of Jesus. This course is a comprehensive overview of the books of the Hebrew Scriptures. The theme of the covenant between Yahweh and the Hebrew people unfolds as the students work through the forty-six books that comprise the Hebrew Scriptures. In the Hebrew Scriptures, the students can see God's faithful love working in the lives of fallible, scared, courageous and sometimes humorous human beings; therefore, the faith, hope, and love of the students can be nourished.

H0201 Christian Testament

Required **Year** **1 Credit** **Grade 10**

This course is a study of the life, ministry, message, and meaning of Jesus of Nazareth. By studying the Christian Testament (the Gospels and their development, the Acts of the Apostles, the life and ministry of St. Paul, and the Book of Revelation), students will gain a more clear understanding of who Jesus is and what the early Christian Church taught about him. This course encourages students to realize and understand how the message of Jesus impacts their own lives.

H0301 Catholic Church History

Required **Year** **1 Credit** **Grade 11**

Faith development and religious study at the eleventh grade level is designed to help eleventh grade students know Jesus Christ through his people, the Church, and to recognize the ongoing presence and action of God's spirit throughout the Church's history as we study the Church's Tradition. Relevant faith ancestors, important historical developments, sacramental history, contemporary church issues, social justice teaching of the Church, and major Church documents and councils are explored throughout the course. It is designed to help those who are Catholic deepen their sense of identity as Catholic Christians and to inform all students, whether Catholic or from another faith tradition, about the rich history we share with one another. This course is presented in the spirit of dialogue and all students are encouraged to ask questions and share their faith stories and experiences.

H0401 Personal Faith and Christian Morality

Required Semester 1/2 Credit Grade 12

The first semester of senior year students will be exposed to reading material, participate in discussion and other activities to expand their understanding of Personal Faith and Christian Morality. Many activities will be reflective in nature, encouraging an in-depth consideration of the questions, “What kind of person am I becoming?” and “What kind of person do I want to become?” All activities will emphasize participation while allowing for subjective reflection.

H0402 Christian Lifestyles & Social Issues

Required Semester 1/2 Credit Grade 12

The second semester of senior year will help students to understand and learn to cope with the challenges, opportunities and tasks that they will be faced with in young adulthood. We will discuss these in the light of the Gospels and the Christian tradition. As a person better understands oneself and one’s self-worth, that person will more deeply realize the presence of God’s love in that person’s life. This understanding will empower a person to love more fully and seek peace and justice as a part of one’s lifestyle.

ENGLISH

H1100 English I

Required Year 1 Credit Grade 9

English I is a survey class that introduces students to a variety of literary genres – poetry, short story, and novel. This class develops students’ writing skills through completion of different writing tasks. Students in this class also work to improve reading, grammar, and vocabulary skills. Students will read novels such as: *The Outsiders*, *The House on Mango Street*, *To Kill a Mockingbird*, *Dandelion Wine*, *Romeo and Juliet*, *The Secret Life of Bees* and *The Catcher in the Rye*. The second semester will include a unit on music as literature.

H1200 English II

Required Year 1 Credit Grade 10

English II is dedicated to the study of American Literature. Students will explore the historical context, literary technique, and modern implications of a variety of novels, short stories, poems, and plays. Assessment methods include traditional tests, academic essays and papers, journal responses, and creative projects. A strong emphasis is placed on the writing process and critical thinking strategies.

H1300 English III

Required Year 1 Credit Grade 11

English III introduces students to British Literature, beginning with the Dark Ages of *Beowulf* and ending in the 21st century with a variety of modern texts. Students read, study, and critically write about British authors and their works. Literary genres include the epic, novel, poetry, short story, and essay.

H1306 AP English III

Elective Year 1 Credit Grade 11

This class is a college-level course. English III AP students read, study, and write about both British and American Literature. Students closely read and critically assess poems, short stories, novels, plays, etc., learn the literary concepts applicable to specific genres, and critically apply these concepts in well-constructed essays. This class emphasizes both critical reading skills and effective writing skills. At the end of the year students have the opportunity to take the AP Literature and Language test.

Prerequisites: C in English II; see AP Guidelines

H1400 English IV

Required **Year** **1 Credit** **Grade 12**

This class introduces students to World Literature. Through readings of both a world literature text and carefully selected novels, students explore global practices and beliefs, both past and present. Students also participate in a variety of writing and research projects that prepare them for a world beyond high school.

H1406 AP English IV

Elective **Year** **1 Credit** **Grade 12**

Semester 1-- This class doubles as a Dual Credit Writing I, English 110 class with Missouri State University. Its guidelines thus follow the prerequisites established by the English Department at MSU. Students will learn how to research and write essays based within a variety of contexts--personal narrative, causal, descriptive, position, etc. Students who register for and successfully complete English 110 will earn three hours of college credit with MSU.

Semester 2--This class doubles as a Dual Credit Writing II, English 210 class with Missouri State University. Its guidelines thus follow the prerequisites established by the English Department at MSU. Students will expand upon the skills learned in Writing I. They will learn to proficiently read, research, and write within a variety of disciplines. Students who register for and successfully complete English

210 will earn three hours of college credit with MSU. *Prerequisites: B (or permission) in English III AP; see AP Guidelines.*

LANGUAGE ARTS

Note: Language arts courses do not take the place of or fulfill the graduation requirements for English courses.

H1501 Public Speaking

Required **Semester** **1/2 Credit** **Grade 9**

This course provides instruction and practical experience in research, outlining, preparation and delivery of speeches within a public setting. Emphasis is placed on informative, persuasive, and special occasion public speaking. The course includes lecture, speaking before the class, peer critiques, teacher evaluation, watching and listening to others speak. Upon completion, students should be able to research, prepare an outline and deliver well-organized speeches.

H1512 Debate/Forensics

Elective **Semester** **1/2 Credit** **Grade 9-12**

This course introduces the principles of debate. Emphasis is placed on research, argument, refutation, and logic. Upon completion, students should be able to use these skills in the presentation of ideas within the context of formal debate. Forensics topics of study will include Lincoln-Douglas Debate, Public Forum Debate, Extemporaneous Speaking and Original Oratory. Students will be required to either attend one interscholastic debate, or compete in one interscholastic debate. Debate can fulfill the Public Speaking requirement. Debate/Forensics can be repeated for elective credit.

H1515 Competitive Debate/Public Speaking

Elective **Year** **1 Credit** **Grade 9-12**

This course focuses on developing the necessary skills to successfully compete in interscholastic debate tournaments. Students will further develop skills of research, argumentation, refutation, cross-examination, and logic. Emphasis is placed on Public Forum Debate, Extemporaneous Speaking, and Original Oratory. Students will be required to compete in two interscholastic debate tournaments each semester. Prerequisite: 1 semester of Public Speaking or Debate.

1630 Mythology

Elective **Semester** **1/2 Credit** **Grade 11-12**

Comparison of the ancient myths of Greece, Rome, Northern Europe, the Middle East and America. Readings are taken from ancient sources and modern interpretation. Lectures, discussion, and writing projects will deal with major deities and heroes, the ancient mystery religions and creation epics, with emphasis on cultural backgrounds, common structures of myth, and methods of interpretation. This class is reserved for juniors and seniors.

H1635 Creative Writing

Elective **Semester** **1/2 Credit** **Grade 11-12**

By studying techniques from prose to poetry, students will write and participate in collaborative editing. Students will have the opportunity to explore various themes within the genres through exposition, examination, and application. Methods of assessment include writing, peer responses, and critical reviews.

H1640 Journalism

Elective **Year** **1 Credit** **Grade 11-12**

Students will write news copy, editorials, and critical reviews; students will also create photo essays along with school sports photo projects for publication in the school yearbook. The class will focus upon recognizing the evolution of journalism, the role of the journalist within a culture along with events and individuals of historical significance such as Watergate, the Nixon Frost Debates, the Kennedy assassinations, Kent State and more. The class will further address current world issues as they occur.

H1655 College Prep

Elective **Semester** **1/2 Credit** **Grade 11-12**

This class is geared for juniors and seniors. Students will research colleges, scholarships, etc. Students will learn and practice study skills, reading/writing strategies, note taking, class presentations, etc. All activities are geared to prepare students for success in the college classroom.

H1665 Children's Literature

Elective **Semester** **1/2 Credit** **Grade 11-12**

This class will focus upon significant American and British authors along with an exposure to the genre of fantasy (children's literature). Students may encounter such literature as Peter Pan, The Little Prince, The Velveteen Rabbit and Harry Potter along with other award winning children's literature.

H1685 American Film

Elective **Semester** **1/2 Credit** **Grade 11-12**

This class will be segregated into a variety of subjects focusing upon the impact of the arts in society and an individual's search for self through artistic expression. The semester will focus upon the history of film. Students will be required to write reviews and research critical reviews of films such as Citizen Kane, Casablanca, On the Waterfront, Psycho, A Beautiful Mind, The Graduate, Million Dollar Baby, Cinderella Man and others.

Social Studies

H2125 Government/Geography

Required **Year** **1 Credit** **Grade 9**

This semester class is designed to help students develop an understanding of the structure and purpose of government, the foundations of American democracy and the role of the United States in world affairs. Students will study how the actions, issues and policy decisions facing the United States government, its states and the people have evolved over time. During this class, students will also learn about their rights and responsibilities as U.S. citizens and how individuals can participate in government as informed citizens.

Second semester is a survey of the world's geographical regions, focusing on the location of the earth's major physical features as well as culture, population, current political conflicts and human-environmental interaction.

H2200 Western Civilization

Required **Year** **1 Credit** **Grade 10**

A full year course offered to 10th grade students. This class is recommended for the college-bound student. The course will focus on the major developmental periods of Western Civilization: prehistoric/tribal cultures, the ancient cultures of Egypt, Greece and Rome, the Judeo/Christian era, the Middle Ages, the Renaissance, the Age of Enlightenment, the Age of Romanticism, the 20th Century.

H2500 AP World History

Elective **Year** **1 Credit** **Grade 10**

This college-level course is structured around historical thinking skills and key concepts and themes from world history, beginning around 8000 B.C.E. to the present. These historical thinking skills are divided into four categories: 1) crafting historical arguments from historical evidence, 2) chronological reasoning, 3) comparison and contextualization, and 4) historical interpretation and synthesis. In addition, the course is divided into five major themes: 1) interaction between humans and the environment, 2) development and interaction of cultures, 3) state-building, expansion and conflict, 4) creation, expansion and interaction of economic systems, and 5) development and transformation of social structure. Students will also rely on their world geography skills from freshman year in order to be successful in the course. *Prerequisites: See AP Guidelines.*

H2300 American History

Required **Year** **1 Credit** **Grade 11**

A chronology of American history, objectively emphasizing social, economic and political developments that have shaped the United States and its people, is presented in this course. Additional research includes an examination of the ideological and philosophical aspects of the American experience.

H2306 AP American History

Elective **Year** **1 Credit** **Grade 11**

This is a reading and writing intensive course designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems in American history as well as prepare for the Advanced Placement Exam. *Prerequisites: See AP Guidelines.*

H2407 Psychology/Abnormal Psychology

Elective **Year** **1 Credit** **Grade 11-12**

This course is designed to provide students with a basic view of psychology as well as its origins and applications, with major emphasis on human development and behaviors. The second half of the course presents a survey of the study of abnormal behavior and psychopathology. Students will learn about the range and classification of abnormal behavior and theories of etiology and be introduced to several modalities of treatment.

H2411 AP Psychology

Elective **Year** **1 Credit** **Grade 11-12**

Advanced Placement Psychology is a full year course offered to 11th and 12th grade students. This course is designed to mirror an entry level college course, and prepare students to take the AP Psychology Examination. This course will introduce students to the systematic and scientific study of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. *Prerequisites: See AP Guidelines.*

H2420 Economics

Elective **Semester** **1/2 Credit** **Grade 10-12**

This class will focus on the fundamentals of economics and the influence of economic theory on daily life. Topics covered include; money exchange, the marketplace, prices as a rationing device, supply and demand, competition and income distribution and the role of government in regulating the economy.

H2510 History v. Hollywood

Elective **Semester** **1/2 Credit** **Grade 12**

Many people seem to get their "facts" about history from the movies. But how accurate is that information? In this course, we will look at several Hollywood movies that were "based on a true story" and attempt to determine how factual they really are. This course will give students the opportunity to compare actual historical events with their Hollywood counterparts. Topics to be covered range from Ancient Rome to various wars and battles, to American Presidents; however, students will be able to have some say over what topics are covered during the semester.

A majority of class time will be spent watching movies. But we will also spend time in the library and the computer lab researching and evaluating those movies. There will be discussions, lectures, and time to write your evaluations and thoughts on the movies we watch.

H2530 History of Missouri

Elective **Semester** **1/2 Credit** **Grade 10-12**

This course focuses on Missouri's early history and geography, its struggle for statehood, its role in the Civil War, its post-war growth and development and its current role in the United States.

H2540 World Religions

Elective **Semester** **1/2 Credit** **Grade 10-12**

Why do Muslims face Mecca to pray? Why do Buddhists chant? The major religions of the world are a mystery to many people. Students can begin to unlock the doors of those traditions in this world religions course. The course is an introductory survey that helps students understand the people, dimensions, and religious principles of the world's eleven major religions. Religions to be studied include Islam, Hinduism, Buddhism, Taoism, Confucianism, and others.

H2550 Wars in American History

Elective **Semester** **1/2 Credit** **Grade 10-12**

There are many aspects of American history that cannot be studied in depth throughout a typical survey course. Military history is one that is often overlooked. This course will delve into the many components that make up war: strategy, weaponry, artillery, infantry, development of naval or armed forces, etc... This course will be divided into the Revolutionary War/War of 1812, Civil War, Mexican War/Spanish-American War, World War I, World War II, and the Korean War/Vietnam War. Depending on the interest of the students will depend on the war covered.

H2440 Contemporary Issues

Elective

Semester

1/2 Credit

Grade 10-12

This course will focus on major events that occur, where they occur, and their impact on the world today. Concentrated efforts will be in areas of social studies, news, understanding people, places, environment, and global connections. Analyzing, discussing, debating, and researching will be used to accomplish understanding of the events.

MATHEMATICS

H3100 Algebra I

Required

Year

1 Credit

Grade 9-10

Students in this course will study number relationships. Variables will be introduced and used to write equations. The students will learn to solve and graph equations to demonstrate patterns and relationships among numbers. This knowledge of equations will be used to solve problems from real-life situations.

H3105 Basic Algebra

Elective

Year

1 Credit

Grade 9

Students in this course will meet every day to study the basic elements of Algebra. Topics are covered at a deliberate pace and include using variables in single and multi-step equations; using positive and negative numbers; manipulating and factoring polynomials; graphing equations; using fractions in equations; using decimals and percentages in algebraic work; and solving word problems using variables.

H3200 Geometry

Required

Year

1 Credit

Grade 10-12

This course introduces students to Euclidean geometric terms and concepts. Students will learn to apply terms, postulates, corollaries, and theorems to solve problems and do proofs. The class will cover topics including parallelism, triangle properties, area, volume, circles, polygons, similarity, and coordinate geometry.

H3201 Geometry/ H3301 Algebra 2.

Elective

Year

2 Credits

Grade 10

Geometry/Algebra 2 is for students with a strong interest in mathematics and science, have a B+ average or higher in Algebra 1 and plan on taking Calculus their senior year. This class meets daily with Geometry being taught first semester, and Algebra 2 taught the second semester.

Prerequisites: B+ or higher in Algebra 1, and teacher permission required.

H3205 Basic Geometry

Elective

Year

1 Credit

Grade 10-12

Students in this course will study the basic elements of Geometry. The topics of parallelism, triangle relationships, area, volume, circles, polygons, similarity, and coordinate geometry will be covered at a deliberate pace. Reviews of algebra concepts will be conducted as necessary.

H3300 Algebra 2

Required

Year

1 Credit

Grade 10-12

Algebra 2 starts with a continuation of concepts studied in Algebra 1. Students will be challenged by new concepts that require graphing skills, function analysis, solving higher order equations, complex numbers, series and sequences, and problem solving applications.

H3305 Basic Algebra 2

Elective **Year** **1 Credit** **Grade 10-12**

This course reinforces concepts of Algebra 1, including factoring, equation solving, graphing and word problem analysis. The course expands understanding of solving quadratic relationships and simplifying exponential and rational expressions. The course introduces the concepts of complex numbers, solving higher order equations and logarithms.

H3351 College Algebra

Elective **Year** **1 Credit** **Grade 12**

College Algebra begins with a review of polynomials, exponents, and radicals. This is followed by a study of equations and inequalities, circles, lines, transformations, composite functions, inverse functions, polynomial functions, rational functions, exponential and logarithmic functions, series, sequence, and systems of equations and inequalities. Students have the opportunity to receive college credit for taking this class by dual enrolling with Missouri State University. *College Algebra is open only to seniors who have completed an Algebra 2 course.*

H3406 Pre-Calculus

Elective **Year** **1 Credit** **Grade 11 -12**

Pre-Calculus is a course that includes a study of equations and inequalities, functions, exponents and logarithms as well as graphing. In addition, the class offers lessons on right triangle trigonometry, trigonometric and circular functions, solving oblique triangles, and polar coordinates. An introduction to limits will occur during the second semester. Students interested in pursuing mathematics, science, engineering, and/or medical careers should take this course.

H3501 AP Calculus

Elective **Year** **1 Credit** **Grade 12**

This course teaches material usually covered by a first semester college calculus course. It is a course that reviews important elements of algebra and trigonometry before covering the primary elements of calculus: limits, derivatives, and integrals. The study of each primary element will be rigorous. Students interested in mathematics, science, engineering, and / or medical careers should consider this course. *Prerequisites: Successful completion of Pre-Calculus course and teacher permission required.*

SCIENCE

A student's performance in mathematics should be considered when choosing a science course.

H4200 Conceptual Physics

Elective **Year** **1 Credit** **Grade 9**

This course provides a conceptually-based exposure to the fundamental principles and processes of the physical world. Topics include basic concepts of motion, forces, energy, heat, electricity, magnetism, and modern physics. This course will be laboratory based where students will discover and verify physical laws.

H4201 Pre-AP Physics

Elective **Year** **1 Credit** **Grade 9**

This physics course provides students with exposure to the fundamental principles and processes of the physical world. This course is algebra-based and will apply concepts learned in Algebra I. Topics include motion, forces, energy, heat, electricity, magnetism, and modern physics. This course will be laboratory based where students will discover and verify physical laws. As an advanced science course, Pre-AP Physics assumes that its participants have a strong interest in science and a desire to engage in rigorous study.

Pre-requisite: Concurrent enrollment in Algebra I.

H4150 Anatomy and Physiology (WG)

Elective **Year** **1 Credit** **Grade 11-12**

This course is a survey of the structures and functions of the human body. This course will cover the following systems: Integumentary, Skeletal, Muscular, Cardiovascular, Respiratory, Digestive, Excretory, Nervous, Lymphatic, and Reproductive. As an advanced science course, Anatomy and Physiology assumes that its participants have a strong interest in science and a desire to engage in rigorous study. *Prerequisites: Completion of Biology or Pre-AP Biology.*

H4161 AP Biology

Elective **Year** **1 Credit** **Grade 11-12**

This course is designed to take an in depth look at biology, recognizing that science is a process rather than accumulation of facts. The AP Biology course is equivalent of two semesters of a college-level introductory biology class. Topics covered will include molecules and cells, heredity and evolution, and organisms and populations. This course includes a laboratory component, which will include the twelve required by the College Board.

Prerequisites: Completion of Pre-AP Biology and minimum of B- in Pre-AP Chemistry. AP Chemistry is recommended, but not required.

H4255 Chemistry I

Required **Year** **1 Credit** **Grade 10**

This course will introduce students to the basic composition of matter from the microscopic level to the macroscopic level. Topics covered include atomic structure, reactions, solutions and states of matter. It is intended for those who are not contemplating advanced studies in science.

Prerequisites: Completion of Pre-AP Biology or Biology.

H4256 Pre-AP Chemistry

Elective **Year** **1 Credit** **Grade 10**

This course will introduce students to the basic composition of matter from the microscopic level to the macroscopic level. Topics covered include atomic structure, reactions, solutions and states of matter. It is intended for those contemplating advanced studies in science and serves as a prerequisite for AP Chemistry. As an advanced science course, Pre-AP Chemistry assumes that its participants have a strong interest in science and a desire to engage in rigorous study.

Prerequisites : Must have completed Biology or Pre-AP Biology and have obtained a minimum grade of B in Algebra I. Pre-AP Chemistry also fulfills the 10th grade Chemistry I requirement.

H4261 Chemistry II (WG)

Elective **Year** **1 Credit** **Grade 11-12**

This course takes an in depth look at the study of the properties and changes in matter. Course emphasizes topics such as: solutions, equilibrium, electrochemistry and thermodynamics. A laboratory component will be used to investigate such topics. As an advanced science course, Chemistry II assumes that its participants have a strong interest in science and a desire to engage in rigorous study.

Pre-requisites: Minimum score of B- in Chemistry I and completion or concurrent enrollment of Algebra II.

H4265 AP Chemistry

Elective **Year** **1 Credit** **Grade 11-12**

The course is an equivalent to two semesters of introductory college-level chemistry. The course is designed to build on the fundamental studies of General Chemistry by exploring additional topics in chemical kinetics, thermodynamics, electrochemistry, buffer systems, nuclear chemistry, organic chemistry, and biochemistry. This class includes a laboratory component, and students will keep a laboratory portfolio to receive college

credit. This course is designed for participants that have a strong interest in science and a desire to engage in rigorous study. Prerequisites: Must have obtained a minimum grade of B- in Pre-AP Chemistry.

H4351 Physics I (WG)

Elective **Year** **1 Credit** **Grade 11-12**

This algebra/trig-based course will cover concepts in mechanics, waves and light, and electricity and magnetism. Emphasis will be on problem-solving strategies and building understanding of concepts. Problem-solving using various mathematical methods is an essential element in the class. As an advanced science course, Physics assumes that its participants have a strong interest in science and a desire to engage in rigorous study.

Prerequisites: Must have obtained a minimum grade of B in Geometry, and a minimum grade of C- Pre-AP Chemistry or B in Chemistry I.

H4352 Physics II (WG)

Elective **Year** **1 Credit** **Grade 12**

This course is an in-depth study of force, motion, waves, light, electricity, magnetism, and modern physics. A laboratory component will be used to discover and verify physical laws. As an advanced science course, Physics II assumes that its participants have a strong interest in science and a desire to engage in rigorous study.

Pre-requisites: Minimum score of B- in Physics I and completion of Algebra II.

H4455 Environmental Science

Elective **Semester** **1/2 Credit** **Grade 10-12**

This course will use laboratory procedures, projects and field investigations to integrate topics in the natural and social sciences. These topics include environmental science, ecology, geology, chemistry, geography, sociology, economics, politics and ethics. The application of these topics will be focused on Missouri's environment.

Prerequisites: Must have completed Biology.

H4465 AP Environmental Science

Elective **Year** **1 Credit** **Grade 11-12**

This course is equivalent to one semester, introductory college-level environmental science course. Environmental science is interdisciplinary covering many topics in the natural and social sciences. These topics include environmental science, ecology, geology, chemistry, geography, sociology, economics, politics, and ethics. This course includes a laboratory and field investigations component, which will allow students to apply their environmental science knowledge and understanding to the real world.

Prerequisites: Must have obtained a minimum grade of B- in Biology and Pre-AP Chemistry and have completed or be currently enrolled in Algebra II.

H4550 Forensics

Elective **Semester** **1/2 Credit** **Grade 10-12**

Forensic science is the application of basic biological, chemical, and physical science principles and technological practices to study criminal and civil issues. This course will cover pathology, anthropology, ballistics, trace evidence, biological fluids, DNA, and fingerprints. This is a laboratory and project based class in which students will become investigators and apply the process of science to real-life scenarios.

Prerequisites: Must have completed Biology.

FOREIGN LANGUAGE

H5110 Spanish I

Elective **Year** **1 Credit** **Grade 9 -12**

This course introduces students to the Spanish language and provides opportunities for communication in real-life situations through speaking, reading, writing and listening. Knowledge about the various Spanish-speaking cultures is also learned.

H5120 Spanish II

Elective **Year** **1 Credit** **Grade 10-12**

This course builds on the knowledge learned in Spanish 1, with more of an emphasis on grammar and speaking skills. Class will be conducted mostly in Spanish. Students will be expected to participate in the language, complete grammar exercises as homework, and supplemental materials for class.

H5131 Spanish III WG

Elective **Year** **1 Credit** **Grade 11-12**

This course builds on the knowledge learned in Spanish II, with more of an emphasis on grammar and speaking skills. The course will be conducted almost entirely in Spanish. The classroom environment is focused on speaking, reading, and writing.

H5145 Spanish IV WG

Elective **Year** **1 Credit** **Grade 12**

Spanish IV is an extensive language course that provides the students with a learning experience equivalent to that of a first year college course in Spanish. For this reason, the course is conducted exclusively in Spanish. The students are expected to use Spanish at all times to address the teacher and to address each other in class discussions, oral presentations, and written assignments. The class will focus on reading, writing, speaking, and listening in Spanish.

H5231 French III WG

Elective **Year** **1 Credit** **Grade 11-12**

Emphasis is placed on improving conversation ability. Listening, reading, and writing are more involved as the student puts into practice a larger vocabulary and more complex grammar. The student will write in a journal, do short descriptive work, both written and oral, and write a few short compositions in French. The student will continue to study French poetry and read short literary pieces.

H5245 French IV WG

Elective **Year** **1 Credit** **Grade 12**

As in French 3 emphasis is placed on improving speaking ability. Knowledge in the language is reinforced with review, as well as furthering the study of grammar and vocabulary. The student will do more extensive reading and writing and have an opportunity to research topics of particular interest.

HEALTH & PHYSICAL EDUCATION

H6100 Health

Required **Semester** **1/2 Credit** **Grade 9**

Health is the study of the human body, its habits and stresses as well as inter-related factors which face high school students today. Emphasis is placed on making mature value judgments concerning the individual's own health. Current health issues are also studied.

H6200 Physical Education

Required Semester 1/2 Credit Grade 9

Students will experience a wide range of fitness, individual, and team activities. Students will be required to actively participate and gain cognitive information concerning rules, regulations, and history of activities.

H6211 Individual/Team Sports

Elective Semester or Year 1/2 or 1 Credit Grade 10-12

Students will experience a wide range of fitness, individual, and team activities. Students will be required to actively participate and gain cognitive information concerning rules, regulations, and history of activities.

H6220 Body Sculpting

Elective Semester 1/2 Credit Grade 10-12

This class will combine aerobics, weight training, Pilates, and yoga. These forms of exercise are designed to increase muscular strength, muscular endurance, range of motion, and cardio fitness.

H6225 Dance

Elective Semester 1/2 Credit Grade 10-12

The Class is designed to introduce the basic steps and patterns of various dances. Dances include: Waltz, Swing, Mambo/Salsa, Tango, and Contemporary Dances.

H6241 Weight Training

Elective Semester or Year 1/2 or 1 Credit Grade 10-12

This class will focus on physical development and improvement through strength training with free weights. Basic muscle physiology and biomechanics will be covered as well as proper lifting and spotting technique, program design including volume and specificity of training, and weight room safety.

H6275 Adventure Education

Elective Semester 1/2 Credit Grade 11-12

Students will participate in water safety and hunter safety certification programs. They will also learn and/or participate in a variety of outdoor activities common in our native Ozark region.

Prerequisite: 1 unit of physical education.

FINE ARTS

H7110 Art I

Elective Year 1 Credit Grade 9-12

Art 1 is a studio class that introduces the student to the elements and principles of design. Students experiment with a variety of media to produce projects in the four basic categories of drawing, painting, collage, and sculpture.

H7120 Art II

Elective Year 1 Credit Grade 10-12

Art 2 combines studio projects in drawing, painting, collage, and sculpture with an interdisciplinary study of art styles in ANCIENT art history and architecture.

H7132 Art III (WG)

Elective Year 1 Credit Grade 11-12

Art 3 combines studio projects in drawing, painting, collage, and sculpture with a multi-cultural study of art

styles in MODERN art history and architecture.

H7141 Art IV (WG)

Elective **Year** **1 Credit** **Grade 12**

Art 4 is an individualized program of study consisting of a variety of portfolio projects focusing on principles of design, including printmaking, advertising, calligraphy, image manipulation, and photomontage.

H7201 Jazz Band

Elective **Year** **1 Credit** **Grade 9-12**

Instrumentation of this group will conform as closely as possible to the standard big band instrumentation. The Jazz Band program develops technical and musical skills in the various jazz idioms within the context of the big band setting. The Jazz Band performs at all high school basketball games in addition to their appearance at the spring band concert. Jazz band is a year-long course and will require individual home practice in order for the student to meet course objectives and expectations.

H7203 Concert Band

Elective **Year** **1 Credit** **Grade 9-12**

Enrollment in the concert band is open to students who have successfully completed the middle school band curriculum of the Springfield Catholic School System. Students transferring into SCHS must have been a member of their respective middle school band or high school band program. The concert band functions as a football pep band during the first quarter of the school year, with rehearsals focusing on the performance of pep band style music along with technical skill development exercises. The remainder of the year is devoted to continued technical skill and musicianship development, incorporated into the preparation of concert band repertoire for public performance, including MSHSAA Large Ensemble Music Festival. Concert Band is a year-long class and will require individual home practice in order for the student to meet course objectives and expectations.

H7251 Concert Choir

Elective **Year** **1 Credit** **Grade 9-12**

Concert choir is a non-auditioned performing group of singers from grades 9 – 12. The choir performs two concerts a year, at Christmas and in the spring, and performs at State Choir Contest. Members have the opportunity to audition for District Honor Choirs, All-State Choir, and participate in District Solo and Small Ensemble Festival. In addition, the choir is invited to perform at events within the community, and at High School All-School Mass. The choir sings music from various periods and in a variety of styles, including sacred and standard repertoire.

H7256 Show Choir

Elective **Year** **1 Credit** **Grades 9-12**

Show Choir is a performance-based auditioned group which will focus on contemporary music and dance as well as madrigal repertoire. Along with performances and tours, students will have the opportunity to compete at District and State Solo and Ensemble, State Large Ensemble and the Festival of Choirs competition. *Brief auditions to be held in the spring.*

H7260 AP Music Theory

Elective **Year** **1 Credit** **Grade 11-12**

AP Music Theory is a year-long course for Juniors and Seniors which gives knowledge of how music is structured, how it follows the rules, and how it breaks the rules. Theory is one of the most valuable assets that we can understand as musicians because it allows us to communicate with other musicians. The AP Music Theory tests your understanding of musical structure and compositional procedures through recorded and

notated examples. Strong emphasis is given to listening skills, particularly those involving recognition and comprehension of melodic and rhythmic patterns, harmonic functions, small forms, and compositional techniques. Most of the musical examples are taken from standard repertoire, although some examples of contemporary, jazz, vernacular, or music beyond the Western tradition are included for testing basic concepts. A basic knowledge of note naming and key signatures are encouraged, but not required.

Prerequisite: See AP Guidelines.

H7261 Vocal Jazz/Chamber Choir

Elective **Year** **1 Credit** **Grade 9-12**

This is a year-long ensemble for advanced mixed voices. Emphasis is on rehearsal and performance techniques from the genre of jazz standards, blues, ballads, and chamber choir literature. In this ensemble, the emphasis is placed on the development of musicianship during ensemble performances. Jazz performances are unaccompanied and often student-led. Repertoire can include popular and sacred songs in English, Italian, German, or French. Vocal Jazz/Chamber Choir will compete in area choir competitions as well as tour and perform throughout the community during the school year. Short audition consisting of a major scale and three short tonal memories are required, as well as participation and enrollment in either Show Choir or Concert Choir.

H7262 Women's Choir

Elective **Year** **1 Credit** **Grade 9-12**

Women's Choir is a freshman through senior year-long course offering advanced choral experiences specifically for women's voices. Students develop both musicianship and proficiency in ensemble performance. Course content includes a study of choral literature from all periods and styles, including popular, jazz, and classical music. Women's Choir will compete in area choir competitions as well as tour and perform throughout the community during the school year. No audition is required.

H7311 Drama

Elective **Year** **1 Credit** **Grade 9-12**

This course will provide students the opportunity to develop the acting skills of voice, movement and characterization by participating in theater games and improvisation on a daily basis. The course will center around the completion of the following major projects: one-act plays, costume design, stage makeup, filmmaking, humorous interpretation, storytelling, theater appreciation of the classics, playwriting, directing and producing. Students will be required to either attend one stage performance, or compete in one interscholastic drama competition outside of school each quarter.

PRACTICAL ARTS

H8100 Computer Applications

Required **Semester** **1/2 Credit** **Grade 9**

This introductory course will focus on developing the competencies needed to perform all basic tasks in Microsoft Word, Microsoft Power Point, Microsoft Excel, and Microsoft Access software. Students will be introduced to the tools needed to fulfill reporting, data gathering, and presentation requirements needed to be successful in their high school career. Students will also discuss online safety issues. Students should enter this class with basic keyboarding skills already acquired.

May test out of Computer Applications at the end of 8th grade year.

H8110 Multimedia

Elective **Semester** **1/2 credit** **Grades 9-12**

Students will be introduced to tools, skills, and materials that they can manipulate as the primary means of

creative expression. Students will explore basic applications of various multimedia tools to create visual, aural, and written projects in both digital and print format skills. Students will use Word, sites. Google, Windows Media Player, PowerPoint and various other software applications. *Multimedia fulfills the computer application requirement for 9th grade if testing out of Computer Applications.*

H8145 Marketing

Elective **Year** **1 Credit** **Grade 10-12**

Introduction to marketing. This course of study includes emphasis on marketing principles and an introduction to marketing careers. Topics covered include the fundamentals of marketing: (product development, pricing strategies, promotional systems, and physical distribution), human relations communications; free enterprise economics; marketing operations; e-commerce; management skills and business applications of the microcomputer. Learning activities may include role-playing of class techniques, advertising layouts, promotional campaigns, team management projects, leadership training, community involvement and guest speakers on marketing careers.

H8130 AP Computer Science

Elective **Year** **1 Credit** **Grade 11-12**

This course is an introduction to object oriented programming using Java for the purpose of developing desktop and Internet applications. Topics covered are data types, control structures, classes, objects, messages, methods, applets, instantiation, inheritance, exception handling, and arrays.

Prerequisite: See AP Guidelines.

H8135 Personal Finance

Required **Semester** **1/2 Credit** **Grade 10**

This required course serves as a basic introduction to managing personal finances. Emphasis will be placed on four major areas including income/career choices, money management, spending and credit, and savings/investing. The goal of this class is to prepare students to learn the importance of sound money management as they enter the work environment as both producers and consumers.

H8150 Accounting

Elective **Year** **1 Credit** **Grade 10-12**

This hands-on course gives students an overview of the bookkeeping cycle. The students will learn to prepare journals, post to general and subsidiary ledgers, and complete adjusting and closing entries, as well as income statements and balance sheets for service and merchandising businesses. Preparation of payroll records and an introduction to personal income taxes will also be covered in this course. This course is designed to help students gain sound practices in their own personal financial record keeping as well as prepare students who want to major in business in college for the required accounting courses.

H8205 Teen Living

Elective **Semester** **1/2 Credit** **Grade 10**

Teen Living is a practical course designed to give students an opportunity to explore through various means many of the tasks of everyday life. Examples of topics covered include: selection and preparation of nutritious foods, clothing construction and care, techniques in getting a job, and independent living skills.

H8210 Foods I

Elective **Semester** **1/2 Credit** **Grade 11 -12**

Foods I is an introductory course in which students begin by learning the proper use of tools and equipment, the basics of food preparation, and the importance of teamwork and safety in the kitchen. The remainder of the semester consists of selection, preparation, and consumption of foods from various food groups.

H8215 Foods II**Elective****Semester****1/2 Credit****Grade 11-12**

This is an advanced course in the study of foods and nutrition for healthful living. Students will learn to purchase, prepare, and serve nutritious meals. Laboratory experiences will provide students the opportunity to prepare foods for formal and informal entertaining, international cuisine, and meal planning on a budget. In this class, students will gain knowledge about food preparation and nutrition that they can use in everyday life, now and in the future.

H8220 Clothing/Textiles**Elective****Semester****1/2 Credit****Grade 11-12**

In this course, students explore the world of fashion. Areas of study include: design aspects of fashion; selecting fashions best suited to body type; basic construction techniques through a variety of projects; use and care of the sewing machine; fabric selection and care; and other hand crafts. Activities are directed toward garment selection and construction. Project selections are based on individual skills from beginning to advanced levels.

***Clothing and textiles may be repeated for credit as an independent study. Students repeating the course will be expected to complete more difficult projects.*

H8231 Housing & Interior Design**Elective****Semester****1/2 Credit****Grade 11-12**

Housing is an essential need for everyone. In this course, students will learn that a home is more than a shelter and must meet physical as well as physiological needs. The classroom laboratory provides opportunities for the student to design, decorate, and furnish a home. The many career opportunities in housing and home furnishings will be investigated. Areas of study include: trends in housing; choosing a place to live; housing and the economy; design and structure of housing; personalizing interiors; application of design principles and elements; home furnishings and interior design. This course is recommended for students as they plan for their homes and/or careers in the industry.

H8240 Child Development 1**Elective****Semester****1/2 Credit****Grade 11-12**

Students gain an understanding of the development and care of children in this course. Laboratory observation and actual experiences with children are an important part of the instruction. Attention is given to parenting skills, discipline, and guidance that will promote the development of a happy and secure individual. Areas of study include: parenting choices; heredity and human reproduction; pregnancy and prenatal care; birth and the newborn; physical, intellectual, social and emotional development of children through the preschool years. This course is valuable to both males and females for developing effective parenting skills.

H8245 Child Development 2**Elective****Semester****1/2 Credit****Grade 11-12**

This course provides the student the opportunity to apply and expand knowledge learned in Child Growth and Development I. Focus on the areas of development of the school age child will enable the student to plan age appropriate activities and to develop realistic expectations of children. During the scheduled class period (last four weeks of school), students will experience working as an intern at a local childcare facility or school with classroom instruction. Students will be responsible for their own transportation to and from the work site. This course is recommended for those interested in exploring a career in a child related field.

MISCELLANEOUS

H8550 Internship

Elective **Semester** **1/2 credit** **Grade 12**

The Springfield Catholic Career Exploration Internship Program offers high school seniors the opportunity to explore careers in which they have an expressed interest by providing work-related experiences with local business people. Students will work at a non-paying job site for at least 10 hours per week for one semester to receive 1/2 unit of credit upon successful completion of the stated objectives and evaluations. *Students must have good attendance history, good discipline history, an accumulated GPA of 8.0 and administrative approval.*

H8901 Study Skills

Elective **Semester** **1 credit** **Grades 9-12**

Elective course. Students will learn the following skills: setting goals; creating action plans; time management; project management; prioritization, scheduling; effective use of Microsoft Outlook; note-taking skills; chapter outlining; memorization techniques; chunking; focus/concentration; self-motivation; essay writing; MLA/APA Format; learning style assessment; testing strategies.

H8801 Supervised Study

Elective **Semester/Year** **No credit** **Grades 9-12**

Academic achievement is a top priority at Springfield Catholic High School. It is the purpose of the study hall program to contribute to all students' academic performance by allowing necessary study time. The long-term goal of the study hall program is to prepare students to take responsibility for their own education and practice self-discipline through the allowance of a study hall period. *Students cannot enroll in more than one study hall period per academic day without written permission from the Academic Advisor and written approval from the student's parent.*

H9200 Ozark Technical Community College

Beginning their junior and senior year, students have the opportunity to enroll in college-level technical courses for both high school and college credit. *Students must adhere to both OTC and Springfield Catholic guidelines regarding academic honesty, attendance, and behavior, etc. Students must have good attendance and discipline history, as well as administrative approval.*