

2024-2025

SPRINGFIELD LOCAL HIGH SCHOOL

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Springfield Local High School Students and Parents:

*The purpose of this **Curriculum and Registration Guide** is to provide you with the information you need to select courses from the curriculum we offer. The faculty and administration are proud of the course offerings described in this booklet. The courses of study are a result of their efforts, energy, and expertise. These courses have been designed to meet the individual needs of students and the requirements of post-secondary schools and the world of work.*

Graduation requirements are explained in the Registration guide. All students must have a minimum of 20 credits and meet the Ohio Department of Education graduation test(s) requirements. We encourage all students to take more than the minimum number of courses to graduate in order to get the best possible high school education.

We recommend that students seek the advice of parents, teachers, and the guidance counselor when making their course selections. If you still need further assistance, do not hesitate to ask for our help.

Sincerely,

*Dr. Malone, Principal
Mr. Hogg, Counselor*

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REGISTRATION INSTRUCTIONS

- 1) The purpose of the Curriculum and Registration guide is to provide you with the information you need to select courses from the curriculum offered at Springfield Local High School. **If there are not enough students registered for a course, it will not be offered and you will be asked to register for another course.** It is recommended that you seek the advice of your parents, guidance counselor, and teachers when making your course selections.
- 2). Every student **must enroll in at least 6 classes each semester** which will lead to at least 5 3/4 credits earned per year. Seniors may register for 5 classes.
- 3). Prerequisites are established in order to prepare students for certain courses. Any student taking a class who does not meet the prerequisites set forth in the curriculum guide will not be admitted to the course unless a parent waiver is signed. Any course where a prerequisite is not given may be taken by any student in the appropriate grade level.
- 4). Publications are **not** considered an English credit.
- 5). Physical Education is required of all 9th and 10th grade students. PE can be waived by participation in school sponsored sports, band and cheerleading.
- 6). Health is required of all 9th grade students.
- 7). Each student must have a lunch period, but may schedule 7 classes per semester.
- 8). Springfield local students who enroll at the **Mahoning County Career and Technical Center** will be under the same graduation requirements.
- 9). Occasionally a student wants to re-take a class. This is permitted only if the student had a D or an F. Both grades will be reported on the High School transcript and count towards the GPA. Students will only be awarded one credit should they have received a letter grade of a D on the first attempt.

GRADUATION AND PROMOTION POLICY

Promotion to grade 9	Completing grade 8
Promotion to grade 10	5 credits
Promotion to grade 11	10 credits
Promotion to grade 12	15 credits

GRADUATION REQUIREMENTS

The state of Ohio or the Springfield Local Board of Education prescribe the following as the minimum course areas and credit distribution required for receipt of a high school diploma in this school district.

	Credits
English	4.00
Social Studies (Global/US1, Global/US2, Government)	3.00
Mathematics	4.00
Science	3.00
Health	.50
Physical Education	.50
Electives	5.00
	<hr/>
TOTAL CREDITS	20.00

It is the responsibility of the student to make sure that all Ohio Department of Education graduation requirements are met.

How to access information (practice tests, previous tests) on the web about the EOC:

<http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements>

It is the responsibility of the student/parent/guardian to review Ohio's Option For a High School Diploma to familiarize oneself with the various pathways to earn a high school diploma.

Please visit: <http://www.education.ohio.gov/options>

HONORS DIPLOMA

Beginning with the Class of 2011 the student who completes the college preparatory curriculum in high school must meet any **seven** of the following **eight** criteria in addition to the requirements for the regular diploma:

- 1) four units of English
- 2) four units of Mathematics that include Algebra 1, Geometry, Algebra 2, and another higher-level course or a four-year sequence of courses that contain equivalent content
- 3) four units of Science including Chemistry and Physics
- 4) four units of Social Studies
- 5) either three units of one Foreign Language or two units each of two Foreign Languages
- 6) one unit of Fine Arts
- 7) maintain an overall high school grade point average of at least 3.5 on a 4-point scale up to the last grading period of the senior year
- 8) a composite score of 27 on the American College Testing (ACT) test or a composite score of 1210 on the Scholastic Assessment Test (SAT). (Read, Mat

ACADEMIC PROGRAM

9TH Grade

College English 9
Algebra 1
Integrated Science 1
Foreign Language 1
Physical Education/Health
Band, or Choir
Global/US1

11th Grade

College English 11
Algebra 2
Government
* Chemistry
Foreign Language 3
One Elective

10TH Grade

College English 10
Geometry
Biology
Foreign Language 2
Global/US2
Technology
Physical Education

12th Grade

College English 12
Psychology & Economics
*Physics
*Math Analysis
One Elective

Electives that should be taken by students who are interested in STEM careers are denoted by an asterisk (*).

Information regarding National Honor Society, Academic Letter, GPA, Class Rank and the Valedictorian/Salutatorian ranking are found in the student handbook.

NCAA Requirements: For NCAA eligibility standards, please go online @ www.ncaaclearinghouse.net.

ELECTIVE COURSES

Remember:

All students **must** take at least six courses each semester.

Listed below are electives students may choose to complete their schedules. One fine art credit is required for college entrance. Electives denoted by an (*) meet the fine arts requirement.

AP History
Psychology
Economics
Introduction to Business
Accounting 1
Computer Applications
*Band
*Choir
*Forensic Science
*Art
*Advanced Art
*Music Appreciation
Spanish
Culinary Fundamentals
Global Foods
Principals of Nutrition and Wellness
Personal Wellness and Development
Career and College Readiness
ACT Prep
Academic Study Skills
Publications 1
Publications 2
Publications 3
Pre-Apprenticeship Carpentry 1
Pre-Apprenticeship Carpentry 2
Career Based Intervention (CBI) Related
Career Based Intervention (CBI) Lab
Drone 1
Drone 2

English Curriculum

COURSE TITLE	WHO CAN TAKE IT	LENGTH	CREDIT EARNED
Academic Study Skills	Freshmen	Semester	.5 Credit

An orientation class required for all freshmen* designed to help them transition to the rigors and demands of high school coursework. Emphasis is on skills needed for success such as (but not limited to) note-taking, organizational practices, study techniques, etc. Special attention is paid to reading comprehension, vocabulary building, and writing fluency. Math tutoring is offered during this class on a daily basis.

***Students earning an A or B in 8th grade Language Arts may seek exemption from the course through the high school principal or designee.**

College English 9	Freshmen	Full Year	1 Credit
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This **college preparatory course** is devised to implement progressive thought and self-discovery. The core areas of focus involve essay writing principles, literary themes and vocabulary enhancement. Beyond all academic activities, an important area of development addresses adolescent maturation and independence. Students will apply Language Arts concepts to their mainstream existence and draw appropriate parallels to their surrounding environment. Each aspect of preparation desires advancement in socialization, cognitive function, self-advancement and cultural cognizance. Students are no longer required to complete summer reading or projects, but they may do so for a bonus opportunity. Bonus points will be assigned based on the quality of work.

Honors English 9	Freshmen	Full Year	1 Credit
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This is an **accelerated college prep course for students who have above average reading and writing skills**. The course is designed to improve self-awareness and intellectual thought via traditional and contemporary ideals, as well as progressive educational rigor. Students will address various genres, such as: societal ethics, psychological findings, vocabulary application, composition development and literary deliberation. All aspects of the course are designed to contribute to the student's growth as a human being. In addition, a prerequisite of Honors English involves a summer reading assignment. Assignments must be turned in the first day of class or students will be reassigned to a College English class. Each aspect of preparation desires advancement in socialization, cognitive function, self-advancement and cultural cognizance.

Prerequisite: An A in 8th grade English.

CCP American Literature and Diversity Junior/Senior Full Year 1 Credit

In accordance with Youngstown State University:

ENGL 2618 American Literature and Diversity 3 s.h. One Semester

3 Credits

Writers and works in relation to the diversity of American culture, politics, lifestyles, and social movements.

Alterations to the YSU CCP syllabi may not be made to accommodate students' preferences (i.e.-religious beliefs, political leaning, or cultural tastes).

Gen Ed: Arts and Humanities, Domestic Diversity, Social and Personal Awareness.

Prerequisite: An A in Honors English 10 and Honors English 11.

Disclaimer: If the students fail the course or is in danger of failing and chooses to drop the course with a "W," it is the student's financial responsibility to reimburse Youngstown State University for their bill. The student will still receive a grade on their home school's transcript regardless of dropping the course.

<https://ysu.edu/ocat/college-credit-plus/continuing-student-application>

Trigger Warning: This course explores controversial topics that may be uncomfortable to some. In accordance with YSU (please see above) accommodations cannot be made and texts are required and approved by the state CCP board. Topics may include, but are not limited to: racism, religion, language, violence, sexism/sexuality, mental health, etc.

Course Description: This is an intensive reading and writing course, held to high standards of academia that is meant to challenge assumption about race, gender, culture etc. Students will learn to write, assess literature, and critically think at the collegiate level and henceforth be assessed at that level. Students are responsible for outside reading, comprehensive exams, daily reading quizzes, discussion participation, and literary analysis essays. Completion of summer reading and be acceptance into the CCP program is required. If students don't meet the requirements they will be removed from the program.

Disclaimer: The course will be capped at 20 students and decisions regarding admittance will be made before the end May. NO students will be admitted during the summer. All students must be enrolled before the completion of the prior school year. In accordance with the Springfield Local enrollment policy and procedures if a student decides to drop the CCP course before the start of the school year they will be placed into College English 12. Student may decide to take AP English instead but only if they complete the AP English summer reading requirements which are due on the first day of school.

Springfield Prerequisite: Admittance is based on seniority, completion of the ACT, and passing of both English I and English II end of course exams (i.e. scoring a minim of a 3 on each). Highest ACT scores in both English and Reading are given preferential treatment. ACT must be taken on or before the school's required ACT test date.

College English 12 Seniors Full Year 1 Credit

This course follows the **college preparatory** course of study. Emphasis is placed on developing and refining reading interpretation and comprehension skills as well as persuasive and research writing formats needed for college. Critical analysis of British literary works through discussion and writing is stressed.

Advanced Placement English Seniors Full Year 1 Credit

AP English is a **college literature and writing course**. The course will focus on the critical analysis of World Literature through extensive reading and writing. The student's objective in this course is the successful completion of the Advanced Placement English exam in May as well as a secure background and foundation in literary studies. **Students are required to take the AP Exam in the spring. There is a fee for the test. Students are responsible for the cost of the exam. Summer reading is also required. Summer reading assignments are due the first day of school. Students not turning in the assignments will be reassigned to a College English 12 class.**

Prerequisite: An A in Honors English 11

Publications 1 Fresh., Soph., Jr., Sr. Full Year 1 Credit

Students will have the opportunity to engage in a variety of publications and multimedia learning experiences. They will be able to learn about and work on projects from any combination of the following media: Journalism (*The Sentinel* online), Yearbook, Multimedia, Broadcast. Students will be able to choose what publications format best suits them, and they may even complete projects from several of the formats offered including but not limited to creating news and documentary videos, interviewing, writing articles, collaborating on the assembly video, and creating yearbook pages.

Publications 2 Soph., Jr., Sr. Full Year 1 Credit

This class will build upon what was learned in Publications 1. Student will still have an opportunity to create projects in various media formats, yet they will begin to take on leadership roles in ways such as project managers and publications editors.

Prerequisite: Publications 1 or another equivalent course such as Journalism or Multimedia Broadcast previously offered.

Publications 3 Jr., Sr. Full Year 1 Credit

This class will build upon what was learned in Publications 2. Student will still have an opportunity to create projects in various media formats, yet they will begin to take on leadership roles in ways such as project managers and publications editors. Students will be expected to take a leadership role in creating a capstone project utilizing skills and knowledge gained from Publications 1 and 2 courses.

Prerequisite: Publications 1 and 2 or other equivalent courses such as Journalism or Multimedia Broadcast previously offered.

ACT Prep Soph., Jr., Sr. Semester .5 Credit

Students taking this course have a desire to do well on the ACT test or improve their scores. Students will learn overall test taking skills and practice and enhance skills specific to the English, Math, Reading and Science questions on the ACT test. The class will offer individual, small and large group instruction and online material from the official ACT app to help students hone in on and improve skills that need the most attention. **There is a course fee that covers the cost of the use of the ACT app while enrolled in the class.**

FOREIGN LANGUAGE CURRICULUM

Spanish 1 Fresh., Soph., Jr., Sr. Full Year 1 Credit

In Spanish 1, At this level, students will begin to learn basic vocabulary and structures to be able to communicate in everyday situations. Students will gain functional language ability in social and survival situations, develop strategies that will enable them to continue the process of language learning, and to better understand their own culture and its relationship with other cultures. Oral participation, in addition to written work, are mandatory. Lessons are supplemented with videos, audios and additional online tools. The class feature maximum target-language use; the teacher uses a variety of strategies to facilitate comprehension and support meaning making.

Prerequisite: Being able to memorize vocabulary words as well as spell very well; possessing a very good understanding of English grammar; A or B+ in 8th grade English.

Spanish 2 Sophomore, Juniors and Seniors Full Year 1 Credit

In Spanish 2, students **increase their knowledge of the skills acquired in Spanish 1.** Vocabulary and grammar expansion are emphasized through conversation, repetition, dialogs, short stories, and simple compositions. Oral and written activities are mandatory. Lessons are supplemented with videos and cassettes.

Prerequisite: A C or higher in Spanish 1

Spanish 3 Juniors and Seniors Full Year 1 Credit

In Spanish 3, students **polish the skills acquired in Spanish 1 and 2.** Stronger emphasis is placed on original writing and conversation. Verb tenses are also stressed. Lessons are supplemented with videos and cassettes.

Prerequisite: A C or higher in Spanish 2

Spanish 4 Seniors Full Year 1 Credit

In Spanish 4, **emphasis is placed on advanced grammar conversation.,** and composition. Literary, historical, and cultural information is discussed. This course is designed for students interested in receiving college credit or continuing their language study.

Prerequisite: A C or higher in Spanish 3

MATH CURRICULUM

Algebra 1 Freshmen Full Year 1 Credit

Algebra 1 is the first year of a 4-year core curriculum. This course will be guided by the contents of the Ohio Academic Content Standards for Mathematics. Concepts from number sense and operations; measurement; geometry and spatial sense; patterns, functions and algebra; and data analysis and probability will be integrated with mathematical processes (such as reasoning, communications, and applications of technology). Topics include ratios, proportions, variables, expressions, interpreting structures of expressions, performing arithmetic operations on polynomials, create equations that describe numbers or relationships, understanding solving equations as a process of reasoning and explaining the reasoning, solving equations and inequalities in one variable, represent and solve equations and inequalities graphically, understand the concept of a function and use function notation, interpret functions that arise in applications in terms of the context, interpreting linear exponential and quadratic models, and data analysis and probability. These topics will be covered with both an emphasis on

note taking strategies, and basic mathematical concepts as well as application and theory. Students will develop and practice mathematical concepts and skills and apply these concepts and skills to real-life problem situations. Students will be required to justify their reasoning and outcomes. Students will be required to have a **TI-84 Plus CE** Calculator. Students will be exposed to content and skills relevant to their exit exam.
Prerequisite: None

Advanced Algebra 1 Freshman Full Year 1 Credit

Algebra 1 is the first year of a core college prep curriculum in the STEM (Science Technology Engineering Mathematics). This rigorous course will be guided by the contents of the Ohio Common Core Standards for Mathematics. At times students will be expected to work without a calculator. Concepts from numbers and quantity; algebra functions; and statistics will be integrated with mathematical processes (such as reasoning, communications, and applications of technology). Topics include real numbers, linear equations and functions, linear inequalities, exponents and exponential functions, quadratic equations and functions, polynomials, radicals, interpreting structures of expressions, performing arithmetic operations on polynomials, create equations that describe numbers or relationships, understanding solving equations as a process of reasoning and explaining the reasoning, solving equations and inequalities in one variable, represent and solve equations and inequalities graphically, understand the concept of a function and use function notation, interpret functions that arise in applications in terms of the context, interpreting linear models, and data analysis and probability. These topics will be covered with both a very strong emphasis on application and theory. Students will develop and practice mathematical concepts and skills and apply these concepts and skills to real-life problem situations. Students will be required to justify their reasoning and outcomes. Students will be required to have a **TI-84 Plus CE** Calculator. Students will be exposed to content and skills relevant to their exit exam.

Prerequisite: Students must score in the top 20% on a placement test.

Geometry Fresh., Soph., Jr. Full Year 1 Credit

Geometry is the second year of a core curriculum. This course will build upon student learning from Algebra I and will be guided by Ohio's New Learning Standards for Mathematics. Topics include points, lines, planes, polygons such as triangles and quadrilaterals, congruence, transformations, similarity, right triangles, functions and trigonometry, circles, area, surface area and volume, reasoning and proof. This course is designed to help students learn new concepts, gain new skills, and make application of this newly acquired knowledge to real-life problem situations. A **TI-84 Plus CE** graphing calculator is required for this course. We will be writing some programs in this course, which requires a graphing calculator. **Note: Students wishing to enroll in Advanced Algebra 2 must earn a B or higher in this course, and a teacher recommendation.** Prerequisite: Successful completion of GSA

Advanced Geometry Fresh., Soph. Full Year 1 Credit

Advanced Geometry is the second year of a core college prep curriculum for students interested in studying mathematics or a math related field at a four-year college or university. This course will build upon student learning from Advanced Algebra 1 and will be guided by Ohio Mathematics Standards. Concepts from number and quantity; geometry; functions; algebra; statistics and probability will be integrated with mathematical processes (such as reasoning, communications, and applications of technology). Topics include lines, polygons such as triangles and quadrilaterals, congruence, transformations, similarity, right triangles, functions and trigonometry, circles, area, surface area and volume, reasoning and proof, statistics and probability. This course is designed to help students learn new concepts, gain new skills, and make application of this newly acquired knowledge to real-life problem situations. At the completion of this course students will have been exposed to all content and skills relevant to state required tests. A TI-84+C graphing calculator **is required** for this course. Prerequisite: A or B in Advanced Algebra 1

GSA (Geometry, Statistics & Algebra) Sophomores, Juniors Full Year 1 Credit

This course is a bridge course to Geometry intended for students who have received credit for Algebra 1. The course will begin with a review of Algebra 1 concepts and skills. It will expand students' depth of knowledge and ability to work with functions and the linear family. Students will be introduced to Geometry tying ideas of linear functions to segments, which will be used to build quadrilaterals-a polygon, polygons will be transformed, then we will work with circles, a shape that is not a polygon. All of these topics are heavily represented on the Ohio State Geometry EOC exam. The Geometry section will culminate with the absolute value function family which is a perfect marriage of ideas from linear functions, transformations and circles. Students will next be introduced to probability, a topic within statistics that is also heavily represented on the Ohio State Geometry EOC exam. Topics include experimental versus theoretical probability, permutations and combinations, frequency tables, conditional probability and randomness. The year will end with the quadratic and exponential function families, which are Algebra 2 topics.

Prerequisite: Successful completion of Algebra 1

Algebra 2 Senior Full Year 1 Credit

Algebra 2 is the final year of a core curriculum. This course will build upon student learning from Algebra I and Geometry. It will be guided by Ohio's New Learning Standards for Mathematics. It is a student's first encounter with a more rigorous level of mathematical content. It is the most important and pivotal math course in a student's high school career. Topics covered are linear equations, inequalities, and functions; quadratic functions; powers and polynomial functions; roots and radical functions; exponential and logarithmic functions; rational equations and functions. Concepts are introduced at both an intuitive (informal) and formal level. A **TI-84 Plus C** graphing calculator is required for this course.

Prerequisite: successful completion of Algebra 1, Geometry and GSA.

Advanced Algebra 2 Soph., Jr., Sr. Full Year 1 Credit

Advanced Algebra 2 is the third year of a core college prep curriculum for students interested in studying mathematics or a math related field at a four-year college or university. This course will build upon student learning from Algebra I and Geometry. It will be guided by Ohio's New Learning Standards for Mathematics. It is a student's first encounter with a more rigorous level of mathematical content. It is the most important and pivotal math course in a student's high school career. Topics covered are linear equations, inequalities, and functions; quadratic functions; powers and polynomial functions; roots and radical functions; exponential and logarithmic functions; rational equations and functions; trigonometry; statistics and probability. Concepts are introduced at both an intuitive (informal) and formal level. A **TI-84 Plus CE** graphing calculator is required for this course. Students will be tested both with and without a calculator. The pace is faster and a deeper understanding is expected of students than Algebra 2. **Note: Once a student has completed Advanced Algebra 2, he/she must enroll in AP Statistics or AP Precalculus.**

Prerequisite: B or higher in both Advanced Geometry and Advanced Algebra 1

Algebra 3 Juniors and Seniors Full Year 1 Credit

Algebra 3 is the fourth-year math option of a core college prep curriculum. This course will consist of Trigonometry and Statistics. Trigonometry/Algebra (approximately one semester): Students will study (1) the unit circle, (2) trigonometric functions, (3) graphs of trigonometric functions, and (4) trigonometric identities and equations. They use trig laws, functions and identities to solve problems involving right and oblique triangles (5) exponential and logarithmic functions. Statistics (approximately one semester): Students will (1) explore data: describe patterns and departures from patterns, (2) sample and experiment: plan and conduct a study, (3) anticipate patterns: explore random phenomena using probability and simulation, and (4) explore statistical inference: estimate population parameters and test hypotheses. This part of the course allows students to gain conceptual understanding through peer-to-peer discussions, data collection activities, investigations, and integration of technology when appropriate. A TI-84 graphing calculator is required for this course.

Prerequisite: successful completion of Advanced Algebra 2 or Algebra 2

AP Precalculus Juniors and Seniors Full Year 1 Credit

Students taking AP Precalculus will study Polynomial and Rational Functions; Exponential and Logarithmic Functions; Trigonometric and Polar Functions; Functions involving Parameters, Vectors and Matrices, time permitting. Emphasis will be on procedural and symbolic fluency, multiple representation, communication and reasoning with the major skills being graphing, solving equations and applications. Students will acquire facility in applying mathematical techniques and technology and improve algebraic skills. Graphing calculator TI-84 Plus C is required. Students must take the AP exam in the spring. This course is an opportunity for students to earn college credit. AP questions will be practiced throughout the course. Students are responsible for the cost of the AP exam. This course is required before taking AP/CCP Calculus.

Prerequisite: B or higher in Advanced Algebra 2.

AP Statistics Juniors and Seniors Full Year 1 credit

Statistics is designed to be a fourth-year math course and the equivalent of an introductory, one-semester, non-calculus based, college-level statistics course. The course requires a working knowledge of Algebra II and quantitative reasoning. Statistics introduces students to major concepts that consist of collecting, analyzing and drawing conclusions from data. This course is organized into four major themes: (1) exploring data: describing patterns and departures from patterns, (2) sampling and experimentation: planning and conducting a study, (3) anticipating patterns: exploring random phenomena using probability and simulation, and (4) statistical inference: estimating population parameters and testing hypotheses. This course allows students to gain conceptual understanding through peer-to-peer discussions, data collection activities, investigations, integration of technology when appropriate, and a final project in which they will conduct a statistical study. The course requires more reading and writing skills than most traditional math courses. AP questions will be practiced throughout the course. **Students must take the AP exam. Students are responsible for the cost of the AP exam.**

Students are required to have a TI-84 graphing calculator and access to a spreadsheet program (Google Spreadsheets or Microsoft Excel). Prerequisite: C or higher in Algebra 2, or successful completion of Advanced Algebra 2 and Math Analysis.

AP Calculus (AB)**Seniors****Full Year 1 Credit**

This is a **college level course designed to give students a head start in their study of college mathematics.** Calculus was invented in the seventeenth century to provide a tool for solving problems involving motion. The subject matter of geometry, algebra and trigonometry applies to objects that move at constant rates of speed; however, methods introduced in calculus are required to study the orbits of planets, to calculate the flight of a rocket and to predict the path of a charged particle through an electromagnetic field. This made calculus essential to the solution of problems in physics, engineering, astronomy, aeronautics and astronautics. Later, mathematicians extended the methods of calculus to other fields to study rates of change such as the forecast of the outcome of various chemical reactions in chemistry, the investigation of the rate of growth of bacteria in a culture in biology, the calculation of profits and losses in business, the prediction of the spread of disease in epidemiology, the carbon dating of fossils to predict their age in anthropology and the estimation of the rate at which people learn in psychology. The topics of continuity, limit, differentiation and integration will be developed both informally (intuitively) and formally. The knowledge and skills gained in these areas will then be applied within mathematics and to other disciplines. AP questions will be practiced throughout the course. A graphing calculator is required for this course. **Students must take the AP exam or the YSU exam in the spring. Students also have the opportunity to enroll in the College Credit Plus (CCP) Calculus class through YSU, provided they meet YSU's requirements. This gives students two different opportunities to earn college credit for calculus. Students are responsible for the cost of the AP exam.**

Prerequisite: A B or higher in AP Precalculus

SCIENCE CURRICULUM

Integrated Science 1**Freshmen****Full Year****1 Credit**

Science is the key to understanding the world around us. This course will **introduce students to the way scientists learn about the universe and how these methods can help students become better citizens, employees, and decision makers.** The course will include an exploration of scientific skills, introductory chemistry, earth science, physical science, and environmental topics. The major theme in this course will be energy and the application of energy principles to many aspects of everyday life. Inquiry based laboratory experiences are also part of the curriculum.

Environmental Science Junior and Senior 1 Credit

Environmental science incorporates ecology, chemistry, physics and physical geology and introduces students to key concepts, principals and theories within environmental science. Students will use the following scientific processes with appropriate laboratory safety techniques to construct their knowledge of understanding in all science content areas: design and conduct scientific investigations, use technology and mathematics to improve investigations and communications, formulate and revise explanations and models using logic and evidence(critical thinking), recognize and analyze explanations and models, and communicate and support a scientific argument.

Biology Soph., Jr., Sr. Full Year 1 Credit

Biology involves **the scientific study of life with emphasis on cellular biology, molecular/biochemistry, genetics, survey of structure, function, and classification of organisms, basic life processes, and ecology.** The above is enhanced with laboratory activities.

Prerequisite: A minimum grade C or higher in Integrated Science 1.

Anatomy/Physiology Jr., and Sr. Full Year 1 Credit

This is a **college prep course in the study of the structure and functions of the human body.** This course builds on concepts, skills, and vocabulary mastered in biology. Students will dissect selected mammal and other selected animal organs for laboratory experience. These may include cow eyes, rats, pigs, cats, and sheep hearts. This course is recommended for students who are interested in medical or related careers.

Prerequisite: A C or higher in Biology

Chemistry Jr. and Sr. Full Year 1 Credit

Chemistry is the study of matter and the changes which matter undergoes in chemical reactions. It includes laboratory experiments for which written reports must be submitted. The course also includes considerable mathematical calculation and “word” problem solving. Subject matter includes studies of chemical properties, physical properties, states of matter, atomic structure, chemical bonding, and dynamic equilibrium. Recommended for all college-bound students.

Prerequisite: C or higher in Advanced Algebra 1 and Advanced Geometry OR a B or better in Algebra 1 and Geometry AND current enrollment in Advanced Algebra 2 or Algebra 2.

Physics Seniors Full Year 1 Credit

General Physics encompasses the study of the physical laws of measurement, forces, vector analysis, motion, energy, and waves. The laboratory is an integral part of the course. Mathematical problem solving comprises a majority of the course work including Algebra and Geometry skills. Anyone aspiring to a career in Medicine or Engineering should have Physics.

Prerequisite: C of higher in Advanced Algebra 2 OR a B or higher in Algebra 2.

Intro to Forensic Science Jr. and Sr. Semester .5 credit

Additional fees apply (\$25)

Forensic Science is the application of science (Chemistry, Physics, and Biology) to the criminal and civil laws that are enforced by police agencies in a criminal justice system. It includes the investigation of fingerprinting, fiber analysis, ballistics, arson, trace evidence analysis, poisons, drugs, blood spatters, and blood samples. Students are taught the proper collection, preservation, and laboratory analysis of various samples. Law and legal procedures will also be discussed. Forensic Science is recommended for students interested in learning about the application of science to criminal investigations in order to provide evidence that can be used in the solution of criminal cases. Many semester science class DO NOT meet college or university requirements for unconditional admission. A third year-long science course is required for the college prep curriculum. Please check with your science teacher, counselor, or university of choice for clarification.

Drone I 1 semester 0.5 credits

Explore the world of drones in this comprehensive course where students learn the fundamentals of drone technology, regulations, and safety. Gain hands-on experience in drone operation, flight planning, and aerial photography. Students enrolled will also explore emerging careers in drones through embedded shadowing, speakers, and career research. Students who enroll have the opportunity to earn their Federal Aviation Administration (FAA) Part 107 Remote Pilot Certification, Small Unmanned Safety Institute Certification Level 1 certification, 12-point industry recognized credential seal, and Ohio Means Jobs Seal.

Prerequisite: Recommendation from Principal and Guidance Counselor.

Drone II

1 semester

0.5 credits

This course is a continuation of Drone I where students start where they left off in their training and have the potential to earn advanced training and certifications. The course work will include Safety Level 3 (VSO Ground) and Safety Level 4 (VSO Flight) and more industry credits will be available upon successful completion. These certifications make students extremely marketable post high school with little post-secondary education needed to enter the workforce.

Prerequisite: Recommendation from Principal and Guidance Counselor and successful completion of Drone 1.

SOCIAL STUDIES CURRICULUM

Global-US History 1**Freshmen****Full Year****1 Credit**

This course is a **survey of Global and US history from the Enlightenment to Pre-World War II**. The teacher will highlight the expectations for learning aligned with Ohio’s Standards for both World and American History topics such as: “Enlightenment ideals influence Revolution”, “Industrialization and Progressivism”, and “Foreign Affairs from Imperialism to Post-World War I.” Students will develop an understanding of the social, political, economic, and cultural issues that have shaped modern times.

Honors Global-US History 1**Freshmen****Full Year****1 Credit**

This course is a **survey of Global and US history from the Enlightenment to Pre-World War II**. The teacher will highlight the expectations for learning aligned with Ohio’s Standards for both World and American History topics such as: “Enlightenment ideals influence Revolution”, “Industrialization and Progressivism”, and “Foreign Affairs from Imperialism to Post-World War I.” Students will develop an understanding of the social, political, economic, and cultural issues that have shaped modern times.

This accelerated course is designed to prepare students **for the A. P. US History class**.

Prerequisite: An A in 8th grade social studies and English. Students should have strong reading and writing skills.

Global-US History 2 Sophomores Full Year 1 Credit

This course is a **survey of Global and US history following World War I**. The teacher will highlight the expectations for learning aligned with Ohio’s Standards for both World and American History topics such as: “Prosperity, Depression, and the New Deal”, “From Isolation to World War”, “The Cold War”, “Social Transformations”, and the “Post-Cold War World”. Students will develop an understanding of the social, political, economic, and cultural issues that have shaped modern times.

Prerequisite: Credit for Global-US 1

A P History Jr., Sr. Full Year 1 Credit

This is an accelerated course **designed for the college bound student**, especially those interested in acquiring college credit by taking the College Board Advanced Placement History test. Major concepts discussed will include the foundation of the nation, nationalism vs. sectionalism, foreign policy, civil rights, and major military confrontations. **Students are required to take the A P Exam in the spring. Students are responsible for the cost of the exam. (This course is required to be a Valedictorian or Salutatorian).**

Prerequisite: A or B in **BOTH** Global/US1 and Global/US2.

American Government Jr., Sr. Full Year 1 Credit

This course is designed **to give students practical working knowledge of the American political system at the federal and state level**. Special emphasis will be placed on the constitution, three branches of government, and current events as they relate to topics discussed.

Psychology Juniors, Seniors 1 Semester` .50 Credit

Psychology is the study of behavior. **Students will explore what people do, how they think, and why they act the way they do**. The course also includes the study of the major school of thought in psychology, and the most recent psychological theories.

Economics Junior, Senior 1 Semester .50 Credit

Economics is **the study of how men attempt to meet their unlimited wants with their limited resources**. The course will discuss the economic problems faced by all societies and students will learn how our American economic system functions. Students will also explore the relationship among business, labor, government, and the individual in making economic decisions.

BUSINESS CURRICULUM

Computer Applications Fr., Soph., Jr., Sr. 1 Semester .50 Credit

Students will become proficient in the use of Google Drive, Google Docs, and Google Classroom. Students will also learn how to integrate each of these programs into each other.

Accounting Soph., Jr., Sr. Semester .50 Credit

Instruction focuses on the management of a company's financial resources including the accounting cycle, financial statements, and interpretation and use of financial data.

Financial Literacy Jr., Sr. 1 Semester .50 Credit

Financial Literacy prepares students to understand financial literacy concepts and helps them to become savvy consumers who can avoid scams, prepares students to make sound financial decisions, provides an overview of different types of insurance and how they protect individuals, explains how to create budgets and plan for unexpected expenses and provides an introduction to investing.

Intro. To Business Fr., Soph., Jr., Sr. 1 Semester .50 Credit

The study of domestic and international business operations including start-up, financing, management, and standard practices.

Business & Personal Law Fr.,Soph.,Jr.,Sr. 1semester .50 credits

Students will study true situations that show how business and personal law impacts not only business, but the lives of young people and adults as well. Students will achieve an understanding of legal principles they will use throughout their lives.

Pre-Apprenticeship Carpentry 1 Juniors Full Year 1 Credit

Engage in hands-on projects putting your skills to the test in carpentry and a variety of other building trades. This course emphasizes tool and worksite safety, along with soft skills development. You will also establish significant networking opportunities along the way. This program also introduces skills and provides experience in many other building trades including brick laying, painting, laborers and more. Students can earn 8 Industry Recognized Credential points for completion of Career Connections Courses 1, 2. Students can earn 12 pt. Industry Recognized Credential for earning your Carpenters Pre-Apprenticeship certificate.

Pre-Apprenticeship Carpentry 2 Seniors Full Year 1 Credit

Students will continue to engage in hands-on projects putting skills to the test in carpentry and a variety of other building trades. Students in Carpentry 2 will use more refined skills to complete challenging and detailed projects. Tool and worksite safety will continue to be emphasized. Students can earn 8 Industry Recognized Credential points for completion of Career Connections Courses 1, 2. Students can earn 12 pt. Industry Recognized Credential for earning your Carpenters Pre-Apprenticeship certificate.

MUSIC CURRICULUM

Band Fr., Soph., Jr., Sr. Full Year 1 Credit

Band is a full year course **open to all students who can play an instrument and attend all rehearsals and performances**. All band members participate in marching band from August through November and in concert band for the remainder of the school year. Other activities open to band members include pep band and solo/ensemble contests. Summer rehearsals, football games, parades, and concerts, are all required performances. Students will learn the fundamentals of instrumental music as they develop the ability to play an instrument through performance-orientated activities.

Choir **Fr., Soph., Jr., Sr.** **Full Year** **1 Credit**

This course focuses on the fundamentals of singing: using correct posture, breathing, diction, the ability to match pitch, harmonize and blend in a choral setting, and music literacy. Students will sing various styles of music ranging from classical to current pop music. Historical background information on the choral music being sung will be studied. Basic theoretical fundamentals of music will also be incorporated. All students must participate in Winter, Fine Arts Night, and Spring concerts. Other performance opportunities include OMEA Large Group Contest and Solo and Ensemble Adjudicated Event. Other performance opportunities may come up during the school year, and all students will be notified at least two (2) weeks in advance of these performances in order to be excused from the performance if the director is notified prior to the event.

Students will be graded on daily classroom participation, incidental worksheets, quizzes, and participation in major rehearsals and concerts. There will also be individual part singing to incorporate music literacy standards into the performance aspect of the ensemble. Only students with an excused absence will be exempt from performing and will be given an alternative assignment.

Music Appreciation **Soph., Jr., Sr.** **Full Year** **1 Credit**

A comprehensive study of Western music beginning in the Middle Ages (c. 500 AD) and continuing through the 20th Century. Topics include form, style, and instrumentation as well as major composers and their works. Activities include score study and listening.

ART CURRICULUM

Art 1 **Soph., Jr., and Sr.** **Full Year** **1 Credit**

This class will introduce the fundamentals and principles used in the fine and practical arts. Students will be introduced to basic techniques used in art, which include but are not limited to, drawing, painting, and design.

Art 2 **Jr., and Sr.** **Full Year** **1 Credit**

This class reinforces the fundamentals and skills taught in Art 1, plus the introduction to more advanced techniques. Students will create a portfolio that can be used for college applications.

Prerequisite: A B or higher in Art 1

Art 3 Seniors Full Year 1 Credit

This class reinforces the fundamentals and skills taught in Art 2 plus the introduction to more advanced techniques. Students will create a portfolio that can be used for college applications.

Prerequisite: A B or higher in Art 2

SPECIFIC LEARNING DISABILITIES CURRICULUM

Integrated English 1-4 Fr., Soph, Jr., and Sr. Full Year 1 Credit
Integrated Reading 1-4

Integrated English and Reading can be taken only with the permission of the guidance counselor (**must qualify for placement**). A variety of approaches, materials, and activities, will be used to encourage the further development of reading and comprehension skills. Individual and small group instructions are emphasized. Concepts from American and World Literature are emphasized.

Integrated Math 1 Fr., Soph, Jr., and Sr. Full Year 1 Credit

Integrated math can be taken only with the permission of the guidance counselor (**must qualify for placement**). Math 1 is designed to help students make the transition from arithmetic to algebra placing emphasis on prerequisite skills, concepts, and the problem-solving process. Students will be introduced to the algebraic concepts of real number properties, solving simple linear equations, graphing ordered pairs, problem-solving strategies, and patterns, relations, and functions. This course may be taken as preparation for Math 2.

Integrated Math 2 Soph, Jr., and Sr. Full Year 1 Credit

Integrated math can be taken only with the permission of the guidance counselor (**must qualify for placement**). Math 2 includes the concepts of real number properties, solving linear and quadratic equation, algebra graphing, problem-solving strategies, deductive reasoning, patterns, relations and fractions. The course also includes an introduction to probability and statistics. It is the first course in a sequence that would empower the student to succeed in advanced mathematical topics such as geometric properties.

Integrated Science Fr., Soph., Jr., and Sr. Full Year 1 credit

Integrated science can be taken only with the permission of the guidance counselor (**must qualify for placement**). Students will learn about the human body, land animals, earth science, and the solar system. Reading and comprehension skills are emphasized.

Integrated Social Studies Fr., Soph., Jr., and Sr. Full Year 1 Credit

Integrated history can be taken only with the permission of the guidance counselor (**must qualify for placement**). Student will learn about American history, world history, civics, and minorities, and the American Government System. Reading, note taking, and study skills are emphasized.

FAMILY AND CONSUMER SCIENCES

Global Foods Fr., Soph., Junior, Senior 1 Semester 0.5 Credit

In this course, students will compare cuisines, ingredients and preferred cooking methods of various cultures. The influence of traditions and regional and cultural perspectives on food choice and culinary practices will be emphasized. Students will examine the issues and conditions that affect the availability and quality of food in the global market, and apply advanced cooking techniques, including the use of specialty and advanced equipment in the preparation of food dishes.

Culinary Fundamentals Fr., Soph., Junior, Senior 1 Semester 0.5 Credit

In this course, students will apply fundamental culinary techniques, such as knife handling skills and the recognition, selection and proper use of tools and equipment. An emphasis will be placed on mise en place, the management of time, ingredients and equipment. Students will apply standard recipe conversions using proper scaling and measurement techniques.

Career and College Readiness Fr., Soph., Jr., Sr. 1 Semester 0.5 Credit

In this course, students will develop effective learning strategies and skills to provide a strong foundation for successful lifelong learning. Throughout the course, students will research careers and occupations, review postsecondary admissions qualifications, develop interviewing skills and participate in internships. Additional topics will include principles and techniques of professionalism, networking, conflict resolution, negotiation, leadership, and entrepreneurship.

Principals of Nutrition and Wellness Fr., Soph., Jr., Sr. 1 Semester
0.5 Credit

In this course, students will use principles of nutrition to ensure a healthy body throughout the lifecycle. An emphasis will be placed on planning and preparing meals with an understanding of nutrients and their benefits, portion control and dietary needs. Additional information will include steroid and supplemental use, body weight and management and the implementation of physical activity to maintain a healthy lifestyle.

Personal Wellness and Development Fr., Soph., Jr., Sr. 1 Semester 0.5 Credit

In this course students will develop a personalized approach to healthy living. An emphasis will be placed on developing personal health for an adolescent that can be used as they transition through life. Additional topics will focus on problem-solving, work ethics, nutritional and food selections, family dynamics and personal health.

HEALTH AND PHYSICAL EDUCATION CURRICULUM

**Physical Education Fr., Soph. 1 Semester 0.25 Credit
(Boys and Girls)**

Physical education is required of all freshman and sophomore students and is a requirement towards graduation. **Students will engage in a wide variety of physical activity, programmed exercise, games, and lifetime sports.** The main objectives of physical education are participation and appreciation of human movement. A credit for physical education may be earned by taking the course or waived by participating in sports. The class for each semester is worth .25 credits. Students may take this class twice, as a freshman and as a sophomore to earn the .5 credit needed. If the credit is waived by participating in sports, the student must participate in 2 complete seasons. This does not have to be the same sport each time. (Students cannot earn the credit by taking one class and participating in one sport.) **Since the PE credit is waived for participation in sports the student must pick up an additional .5 credit elective.**

Health Education Freshmen 1 Semester 0.50 Credit

This course is designed to give the students a better understanding of personal, community and world health. It is also designed to help the student better understand his/her own health needs and become more aware of the concept of wellness. The course is required of all freshmen.

CBI Related Juniors, Seniors Full Year 1 Credit

The Career-Based Intervention (CBI) program is a Career-Technical Education Program for students who have barriers to achieving academic and career success. The program is to help students improve academic competence, graduate from high school, develop employability skills, implement a career plan and participate in a career pathway in preparation for postsecondary education and/or careers. CBI Related provides a combination of educational and work-based learning opportunities for student success. CBI Related will assist students with study skills, assist with academic progress and success and prepare for appropriate standardized testing. The seven key principles used as a guide for program designs are: Higher Expectations, Common Curriculum, Authentic Learning, Supportive Structures, Sense of Belonging, Continuous Improvement, & Student Identification.

CBI Lab Juniors, Seniors Full Year 1 Credit per 125 work hours

Career Based Intervention (CBI) Lab is a corresponding class to CBI Related. All students enrolled in a CBI Lab must also be enrolled in the CBI Related instruction course

CBI Lab is:

- Paid co-operative work-based learning experiences
- Non-paid career exploration opportunities (examples: job shadowing, short-term field experiences, internships, volunteering & community service, and/or service-learning)
- A combination of both

All CBI Lab students must work 120 hours per credit granted.

Career Development Fresh., Soph., Juniors and Seniors 1 Semester 0.50 Credit

This course is designed to help students become stronger students inside and outside of the classroom focused on building skills that will allow students to become better with everyday skills in: Communication, Career Counseling & Planning, Productivity, Efficiency, Time & Project Management, and Digital Citizenship & well-being).

MAHONING COUNTY CAREER AND TECHNICAL CENTER

Springfield sophomores may elect to attend the Mahoning County Career and Technical Center for 11th and 12th grades. The courses which should be completed the first 2 years and the graduation requirements are listed on page 3. **Sophomores who wish to enroll at the Career Center should turn in a Springfield Registration Form for the CTC only and see the guidance counselor to get and return a completed application to attend the Career Center.**

A complete list of Career Center offerings may be obtained from the guidance counselor.

POST SECONDARY ENROLLMENT OPTIONS (CCP)

The Ohio Revised Code states that a secondary student may enroll at a college on a full or part-time basis, and complete courses for college credit or both high school and

college credit. Please refer to the high school website for more information, <http://www.springfield.k12.oh.us/Education%20Options/education%20options.htm>
To Enroll: Juniors and Seniors must have a minimum 2.0 GPA and a 17 ACT. Students must have passed all portions of the Ohio Graduation Test (OGT) and all Next Generation Assessments (NGA).

Springfield Local School District Administrative Guidelines

5460B - CRITERIA FOR CREDIT FLEXIBILITY PLAN

This guideline identifies the criteria relevant to the development of the District's Credit Flexibility Plan. The District Credit Flexibility Plan offers a variety of learning opportunities for students with a focus on performance, acknowledges students' differing learning styles, paces, and interests, and enables students to demonstrate creativity, explore academic and career interests, and practice critical thinking. Students may earn credits by:

- A. completing coursework;
- B. testing out of or demonstrating mastery of course content; and/or
- C. pursuing one (1) or more educational options in accordance with the District Credit Flexibility Plan.

The Plan, developed by the District's Design Team in accordance with Ohio's Core Curriculum initiative, provides that:

- A. any student is eligible to be considered for alternative ways to earn credit toward graduation, but students must meet the conditions prescribed in order to earn the credit;
- B. students who "test out" of coursework may use one (1) or more mechanisms from the State's pre-approved list, including various commercial assessments or performance-based means;

Locally-developed assessments meeting the stated criteria of being developed in accordance with quality guidelines and/or through peer reviewed processes may be utilized.

- C. issuance of credit will be determined locally by:
 - 1. teachers;
 - 2. a multidisciplinary team;
 - 3. a professional panel from the community; or
 - 4. a State performance-based assessment.

- D. when educational options are utilized, the school and students will pre-identify and agree on the learning outcomes;

- E. provisions of the Plan shall be communicated to students and parents on an on-going basis (at least annually), using multiple communications strategies;

Data concerning the methods and frequency of communication with students and families will be reported to the Ohio Department of Education (ODE).

- F. performance data shall be collected and analyzed, including the number of students participating in the Plan, total credits earned, and the extent to which student participation reflects the demographic diversity of student enrollment;

- G. an appeals process shall be available in the event that a proposed credit alternative is denied by the school or District;

- H. credits earned under the Plan shall be reported on student transcripts in the same way that traditional coursework credit is reported;

- I. the Board will review the policy provisions and the District Credit Flexibility Plan regularly.

The following component of Ohio's Core Curriculum Initiative shall be included in the development, review, and implementation of the District's Credit Flexibility Plan:

- A. Demonstrated proficiency options shall be allowed on an on-going basis.

- B. Demonstrated proficiency options shall be allowed to count toward graduation course requirements as well as toward elective credit.

- C. The plan shall not cap nor limit the number of courses or credits that may be earned through approved options.

- D. The plan shall allow for simultaneous credit to be earned in academic and career-technical content more than one (1) academic content or course (department) area, and in secondary and postsecondary study.
- E. The plan shall allow for partial credit to be earned.
- F. Graded and pass/fail options should be allowed for demonstrated proficiency options. Graded options will count in GPA/class ranking.
- G. The plan shall determine credit equivalency for the Carnegie unit.
- H. The plan shall allow student access to on-line or virtual education, postsecondary options, or programs offered by another district approved by the Board. The Plan may allow for credit to be accepted from other districts and education providers (including on-line providers) in accordance with Ohio's Operating Standards.
- I. The plan shall provide for instances when students do not complete specified requirements for earning credit.
- J. The plan shall provide for student transfer between districts and early graduation.
- K. The plan shall provide for student eligibility in accordance with OHSAA bylaws (441, 448) for interscholastic athletics.

Approved 3/10