

UPPER SCIOTO VALLEY HIGH SCHOOL



**2019-2020
COURSE CATALOG**

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To the students of Upper Scioto Valley High School, the purpose of this course catalog is to provide information, which will allow you to choose a high school program of study that will prepare you to meet post-high school goals.

The following suggestions may be helpful in selecting an appropriate high school course program:

1. Take courses that relate to your areas of interest.
2. Select courses in line with your ability and aptitude.
3. Grades you have earned in the past should be considered when selecting future courses. For example, students who do not have an A/B average or better in English may have a difficult time in foreign language.
4. Read the course descriptions for all the classes available to you.
5. Read the suggested four-year curriculum programs for career-technical and academic plans.
6. Discuss with your counselor, teachers, and parents the courses they suggest you take next year.
7. Make sure you take courses that will meet graduation requirements.

Changing Schedules

Once a student has selected his/her courses for the year and has had registration approved by the counselor, there should be no reason for changing a schedule. An exception could be made when a course is not offered due to insufficient registration or a change in your career objectives.

Graduation Requirements

Graduating Classes of 2018	
End of Year Exams	Points Possible
English I and II	0-5
Algebra I	0-5
Geometry	0-5
Integrated Math I and II	0-5
American History	0-5
Government	0-5
Total Points Earned on EOY	18

Subject	Credit
English	4
Math ¹	4
Science ²	3
Social Studies ³	3
Health	½
Physical Education	½ (two semesters)
Total Credits	21

*Earn a cumulative passing score on seven end-of-course exams. The scores will be set by the State Board of Education.

** Points must be earned on a combination of English, Math, Science, and Social Studies tests.

¹Math must include 1 credit of algebra II

²Science must include 1 credit of physical science, 1 unit of life science, and 1 credit of advanced study

³Social Studies must include ½ credit of American history, ½ credit of government, and ½ credit world history/civilization

⁴Electives must include 1 credit or 2 half credits of Business, Technology, Fine Arts, or Foreign Language

SUCCESSFUL COMPLETION AND PASSING GRADE ON SENIOR PROJECT ALSO REQUIRED FOR GRADUATION

Individual Grade Requirements

Grade 9	Grade 10	Grade 11	Grade 12
English Physical Science American History Algebra I P.E./Health (8 th grade)	English Biology I Government Geometry P.E.	English Science Math Electives	English World History /Economics Math Electives
Promotion = 4 Credits	Promotion = 9 Credits	Promotion = 14 Credits	Graduation = 21 Credits

Number of courses you must schedule

Students should fill **seven** periods of a eight period day. Exceptions due to scheduling conflicts may be permitted only after all other possibilities have been explored.

Honors Diploma Requirements

Must meet seven of the following eight criteria:

- (a) **4** units of English
- (b) **4** units of Math, including Algebra 1, Geometry, Algebra II or equivalent and another higher level course
- (c) **4** units of Science, including Physics & Chemistry
- (d) **4** units of Social Studies
- (e) **3** units of Foreign Language, including at least 2 units in each language studied
- (f) **1** unit of Fine Arts
- (g) **3.5 Grade Point Average** on 4.0 scale
- (h) **27 ACT/ 1210 SAT**

Career-Technical Honors Diploma Requirements

Must meet seven of the following eight criteria:

- (a) **4** units of English
- (b) **4** units of Math, including Algebra 1, Geometry, Algebra II or equivalent and another higher level course
- (c) **4** units of Science, including Physics & Chemistry
- (d) **4** units of Social Studies
- (e) **4** units of Career-Technical electives minimum. Program must lead to an industry recognized credential, apprenticeship, or be part of an articulated career pathway which can lead to post-secondary credit.
- (f) **3.5 Grade Point Average** on 4.0 scale
- (g) **27 ACT/1210 SAT**
- (h) Achieve proficiency benchmark established for appropriate Ohio Career-Technical Competency Assessment of equivalent

Note to Students and Parents:

The courses selected during a student's high school years will have a significant impact on the opportunities available after graduation. Students are encouraged to prepare to enter the work force through the high school college prep program and then completion of college or through career-technical education.

Suggested Career-Tech Curriculum

Grade 9	Grade 10	Grade 11	Grade 12
English I P.E./Health Algebra American History Science Electives in areas of career interest	English II Physical Education Science (Biology) Geometry Government Electives in areas of career interest	Attend Ohio Hi-Point Career Center	Attend Ohio Hi-Point Career Center

Suggested College Prep Curriculum

Grade 9	Grade 10	Grade 11	Grade 12
English I Algebra I American History P.E./Health Physical Science Electives in high interest areas* (i.e. music, art, technology, business, agriculture)	English II Geometry Government Physical Education Biology I Electives*	Adv. English III Algebra II or Pre-Calculus Chemistry, Biology II, Electives*	Advanced Composition Pre-Calculus or Calculus World History/Economics Chemistry, Biology II, Chemistry II, or Physics Electives* Successful completion and passing of senior project

*College bound students are encouraged to take two or more credits of foreign language and additional computer courses if possible.

NCAA Clearinghouse Eligibility

To be eligible to receive a scholarship from and/or be eligible for practice or participation in intercollegiate competition at an NCAA Division I or II Institution, a student-athlete must meet a combination of a minimum test score (ACT or SAT) and minimum GPA in "Core" courses. For an in-depth explanation of test score and GPA requirements ask your counselor for a pamphlet or visit www.eligibilitycenter.org. ACT or SAT scores must be sent directly to the NCAA by ACT or SAT.

Ohio Hi-Point Career Center

Ohio Hi-Point is for students who have an interest and the ability to benefit from courses in career-technical education. There is no tuition charge for Career Center students other than fees similar to those normally found in high school. The Career Center prepares students for employment after high school or provides access to 2 + 2 degree-granting programs at technical or community colleges, such as Clark State.

From 8:30 a.m. to 2:30 p.m., students spend 2 ½ hours in lab and 3 hours in academics needed for graduation. All students can earn seven credits per year. Some districts allow students to attend ½ day for lab only, taking the academics at the home high school. Students can still participate in extra-curricular activities and graduation at the home high school. Job placement opportunities through the School-To-Work program allow second-year students to work and earn credit at the same time.

Students enroll at Ohio Hi-Point through their high school counselor. The Student Services Office has information regarding enrollment procedures, program descriptions, and employment opportunities for students desiring job training at the Career Center.

To attend Ohio Hi-Point without graduation deficiencies, a student, by the end of the sophomore year, should have completed at least eight core credits and have a 1.5 minimum grade point average. They should also have physical education and health credit, as they are not offered at the Career Center. If a student has credit deficiencies, a plan for meeting graduation requirements must be developed prior to starting at the Career Center. Good attendance is important and students must not have missed more than 36 days during the 9th and 10th grades combined to be accepted.

College Tech Prep

College Tech Prep is a program designed for completers to be able to enroll in a two-year technical or community college with advanced credit earned while attending Ohio Hi-Point Career Center. Student can earn from 4 to 37 college credits (depending on program) while attending the Career Center. Ohio Hi-Point's postsecondary partners include: Clark State Community College, Rhodes State College, Edison State, Wright State-Lake Campus, Owens Community College, Sinclair Community College, Hocking College and University of Northwestern Ohio. However, other colleges in Ohio will give advance standing to students completing a career-technical program.

Ohio Hi-Point Career Center Programs*

To learn more about the programs at Ohio Hi-Point or College Tech Prep opportunities, please visit <http://www.ohiohipoint.com>.

***STUDENTS CAN COMPLETE THE "INFORMATION TECHNOLOGY" SATELLITE PROGRAM FROM OHIO HI-POINT WHILE ATTENDING CLASSES AT USV.**

Agriculture & Environmental Sciences

- Animal Management
- Outdoor Careers

Business Communications and Media

- Multimedia Marketing

Construction

- Structural Construction
- Carpentry
- Masonry
- Mechanical Construction
- Electricity
- Plumbing and Pipefitting

Education

- Early Childhood Education

Engineering & Manufacturing

- Electronics Engineering
- Welding and Fabrication (two year)
- Welding and Fabrication (senior only)

Health & Science

- Health Technology
- Medical Care Services (senior only program)

Human Services

- Cosmetology
- Culinary Arts

Arts and Communication

- Printing and Graphic Arts

Transportation

- Automotive Technology
- Auto Services
- Auto Collision
- Diesel Technology

Satellite Programs

- Aviation (Grimes Airfield)
- Teaching Professions (Blended Learning)

- I wish to attend Hi-Point full time
- I wish to attend Hi-Point for a half day

Course Descriptions (Note: Not all courses are offered every year, depending on demand.)

Agriculture Education All courses are offered though Ohio Hi-Point Career Center

Agriculture, Food and Natural Resources

1.25 credits

AG611

This first course in the career field is an introduction to Agricultural and Environmental Systems. Students will be introduced to the scope of the Agricultural and Environmental Systems career field. They will examine principles of food science, natural resource management, animal science & management, plant & horticultural science, power technology and bioscience. Students will examine the FFA organization and Supervised Agricultural Experience programs. Throughout the course, students will develop communication, leadership and business skills essential to the agriculture industry.

Animal and Plant Science

1.25 credits

AG621

Students will learn and apply responsible animal management principles and routine husbandry practices. Topics will include nutrition, feeding, and caring for animals, body/carcass composition evaluation, and applying marketing principles to the sale and distribution of animal products. Learners will investigate animal genetics and how it impacts principles of animal improvement, selection and marketing. This course also focuses on the broad knowledge and skills required to research, develop, produce and market agricultural, horticultural, and native plants and plant products. Students will apply principles and practices of plant physiology and anatomy, plant protection and health, reproductive biology in plants, influences in bioengineering, plant nutrition and disorders. Environmental aspects of irrigation, chemical application, soils, and pest management will be studied and applied. Throughout the course, learners will develop business leadership, problem-solving and communication skills in relation to the science of animals.

Prerequisite: Agriculture Food and Natural Resources.

Livestock Selection and Nutritional Management

1 credit

AG622

Students will identify and apply principles and routine husbandry practices to production animal populations. Topics will include principles of nutrition, feed utilization, animal welfare, selection and management of facilities and herd populations. Students will apply knowledge of production animal care to enhance animal growth, selection of breeding stock, and management practices. Throughout the course, students will develop management plans reflecting practices for care and legal compliance.

Mechanical Principles

1 credit

AG625

Students will engage in the mechanical principles utilized in animal and plant production systems. They will learn electrical theory, design, wiring, hydraulic and pneumatic theory, along with metallurgy in relation to hot and cold metals. Students will apply knowledge of sheet metal fabrication applicable to the agricultural industry along with identify, diagnose, and maintain small air-cooled engines. Throughout the course, students will learn critical components of site and personal safety as well as communication and leadership skills.

Prerequisite: Agriculture Food and Natural Resources or teacher approval; must be a dues paying Member of FFA.

Agricultural and Environmental Systems Capstone

1-2 credits

AG630

The capstone course is an opportunity for students to solve problems and demonstrate that they have achieved the requisite knowledge and skills in their chosen Agricultural and Environmental Systems career field pathway. The course is designed to assess cognitive, affective and psychomotor learning and to do so in a student-centered and student-directed manner. The capstone requires the application of learning to a project that serves as an instrument of evaluation.

- Juniors are strongly encouraged to sign up for this course and will be completing a research project outside of class time.
 - 1 credit for juniors, upon completion of 270 supervised hours of research on an agricultural topic.

- Seniors are strongly encouraged to sign up for this course and will be allowed to miss school to do work study in an agriculture related job, or to conduct a research project.
 - 2 credits for seniors, upon completion of 540 supervised hours of research or placement in a business providing agricultural services or products.

Prerequisite: Seniors **must** have 2 completed Agriculture courses and be currently enrolled in Business Management or Agricultural and Environmental Systems meet during the day; principal and teacher approval required; must be a dues paying Member of FFA

Meat Science and Technology

1 credit

AG612

Learners will apply food chemistry and microbiology to processing, preservation, packaging, storage and marketing of meat products. Learners will design and implement a quality assurance program that meets legal compliance. Learners will evaluate carcass composition, assign quality grades, and examine valued-added products. Learners will demonstrate knowledge of safety regulations and operate and maintain equipment and facilities. Learners will practice customer service and sales techniques while understanding the scope and importance of business regulations.

Prerequisite: Agriculture Food and Natural Resources or teacher approval; must be a dues paying Member of FFA.

Art Education

Art 1

1 credit

ART800

Art 1 is an introductory course to build a basic foundation in art skills and media. Students will be introduced to a variety of media and techniques based on the Elements of Art and the Principles of design. Units of study will include beginning drawing skills such as perspective, contour, still life and figure drawing; color theory; and design and composition. Students will explore media such as pen and ink, graphite, charcoal, color pencil, pastels, tempera, watercolor, acrylic, scratchboard, and clay. Art history and art criticism will be touched on throughout the year in order to expose the student to visual art current and past and for the student to gain an understanding of and an appreciation of art.

Ceramics

1 credit

ART822

Students will learn basic skills and technical knowledge of traditional hand building methods in clay. Students will have the opportunity to learn to work with one media, clay. They can become proficient in hand building, coil and slab construction, wheel throwing, surface decoration, glazing, and firing techniques of stoneware clay.

Prerequisite: Successful completion of Art 1 with instructor approval. Subsequent classes in Ceramics will be taught as a continuation of the course, building on the skills students learned in the first semester.

Advanced Ceramics

1 credit

ART823

Students will continue building the skills they learned in Ceramics. They will continue work on the wheel, producing more advanced shapes and larger sizes, as well as more hand building and using the slab roller and extruder as tools for construction. These students will have more responsibilities in firing the kilns, making clay, and making different tools to work with clay. They will learn to mix glazes and to prepare glazes for application.

Prerequisite: Successful completion of Ceramics with a C or better, or with instructor approval.

Art II

1 credit

ART802

In Art II, students will build on their foundation of art skills from the Art Fundamentals and Art Appreciation. Students will apply their knowledge of skills and media to more extensive projects. This course encourages student creativity and problem solving.

Prerequisite: Successful completion of Art 1 with instructor approval.

Art III **1 credit** **ART810**
The third year students will be able to work independently, using all they have learned in the previous two years. Projects will be designed to challenge the students to use their problem solving and critical thinking skills. Students will also be able to work on contract, based on the student's specific interests and skills.
Prerequisite: Successful completion of Art II with instructor approval.

Art IV **1 credit** **ART811**
The fourth year of art will be designed for the purpose of pursuing a career in an art-related field or for enjoyment. For the student who would like to pursue art as a career, a portfolio will be developed and refined. Students who are taking art for enjoyment will go on a teacher/student contract. The student will decide what media and projects they would like to work in and the number of projects, type and quality of work are negotiated between the student and teacher for certain grades before the student begins working.
Prerequisite: Successful completion of Art III with instructor approval.

Special Topics in Art **1 credit** **ART812**
This course is geared towards a wide variety of art topics available to students who are interested in art related information. Each nine week could be geared towards different topics related to art.
Prerequisites: Successful completion of Art I, or instructor approved.

Foreign Language

Spanish I **1 credit** **SP457**
Students develop basic listening, speaking, reading, and writing skills through the study of thematic units. Essential vocabulary, fundamental grammar concepts, culture investigations, and the development of correct pronunciation are emphasized. Students are expected to participate in the interactive classroom activities and conversation exercises which reinforce these concepts. Additional practice of these language skills outside of the classroom is required to further develop proficiency. **Prerequisites:** Recommend C or better in the last English course.

Spanish II **1 credit** **SP458**
Spanish II picks up from Spanish I as students continue by building on and expanding listening, speaking, reading, and writing skills. Frequent use of authentic videos, images, audio, and text provide greater contextualization of key learning concepts and cultural information relevant to Hispanic countries and communities. **Prerequisites:** Successful completion of Spanish I

Spanish III **1 credit** **SP459**
This course builds upon knowledge gained in Spanish 1 & 2. The course is a continuation and recycling of knowledge acquired in Spanish 1 and Spanish 2, as well as an introduction to new vocabulary, structures and expressions. Students will be expected to expand their vocabulary range to include more sophisticated terms, use advanced language expressions, verb tenses and grammatical concepts such as the pluperfect and the subjunctive mood. Students will view Spanish language films and read selected Spanish literature.

Health & Physical Education

Health Education **0.5 credit** **HEA891**
A wellness approach that allows students to examine their lifestyles and helps equip them with understanding and attitudes which will help them make intelligent decisions on matters pertaining to personal and community health.

Guides them in determining goals and making plans to achieve and maintain optimum health. It is the study of one's overall quality of living with respect to their physical, mental, social, and emotional well being. Thinking skills, decision-making skills, and problem solving are factors used throughout the course. As a result of experiencing this course, the student will be better able to successfully interact with the total environment.

Physical Education

0.25 credit

PE890

The concern is with the development of good physical health practices by stressing a high level of total fitness while learning recreational value and leisure time activities. These activities should lead to physical growth as well as social, intellectual, and emotional development. A separate pair of floor shoes and a school physical education uniform (\$15.00 fee) are necessary for this course.

Information Technology

All are Ohio Hi-Point Career Center Career Technical Courses.

All Information Technology students utilize a classroom computer for curricular needs. Participation in the local chapter of Business Professionals of America is a part of every class with opportunities for Regional, State and National levels of competition.

Information Technology

1 credit

BOE 481

This first course in the IT career field is designed to provide students with a working knowledge of computer concepts and essential skills necessary for work and communication in today's society. Students will learn safety, security, and ethical issues in computing and social networking. Students will also learn about input/output systems, computer hardware and operating systems, and office applications. This Course is College Credit Plus Eligible.

Computer and Mobile Applications

1 credit

BOE487

Students will learn to create applications for mobile devices using a variety of commercial and open source software. They will install these applications, modify them, and develop customer service skills to handle user issues. Knowledge and skills related to customer service in professional offices, small businesses, departments, work groups, and corporate information services will be addressed. **Prerequisite:** Completion of Information Technology or instructor approval.

Video and Sound

1 credit

BOE480

Students will create professional video and audio productions for distribution in traditional and new media channels. Students will plan, produce, edit, and launch media products. Students will develop scripts and storyboards, compose shots and operate cameras, capture sounds using microphone hardware, apply special effect techniques, and edit to achieve the final product. Students will be able to use animation and graphic design for video. **Prerequisite:** Completion of Information Technology or instructor approval.

Game Design

1 credit

BOE

This course will prepare students to design and program games using commercial and open source programs and applications. Students will learn industry standard programming language constructs to write programs that integrate classes, class methods, and class instances. Students will learn input method handling, animation, collision detection, game physics and basic artificial intelligence.

Computer Applications in the Workplace CCP Course

1 credit

CPT-1250

(This is embedded in study halls)

Introduces student to essential concepts in computer terminology, hardware components, operating systems and software issues. The student will have a hands-on introduction to word processing, spreadsheet, presentation and database software using the Windows operating environment. Students will be required to prepare letters, reports and other documents, and will be required to import data between the word processing and spreadsheet software

applications

Information Technology Capstone

2 credits

BOE430

The capstone course provides opportunities for students to apply knowledge, attitudes and skills that were learned in Information Technology program in a more comprehensive and authentic way. Capstones often include project/problem based learning opportunities that occur both in and away from school. Under supervision of the school and through community partnerships, students may combine classroom learning with work experience. This course can be delivered through a variety of delivery methods including cooperative education or apprenticeship.

Language Arts

English I

1 credit

ENG101

Required for all freshmen. This course aims to improve the student's ability to express him/herself in writing. To that end, parts of speech and sentence structure will be emphasized. Various types of literature will be introduced such as short story, poetry, drama, etc. Students will also complete a co-curricular research paper with their history class.

English II

1 credit

ENG102

Required for all sophomores. The aim of this course is to give the student insights into literature and to develop a deeper understanding of literature and the techniques a writer uses in producing the various forms of literature. This course also continues and reinforces what was studied in English I, pertaining to writing. Writing a research paper is compulsory.

English III

1 credit

ENG105

Required for all juniors. The historical study of American's writing from the days of the Mayflower to the days of the early 1950's will be emphasized. Focus will be on history's effect on literature and literature's effect on history. Students will examine all facets of fiction, non-fiction, poetry, and drama written by Americans. Outlining, reading comprehension skills, vocabulary building, composition writing and research skills will be stressed. Students will also study classical novels. Also, the course objectives will be to study English literature and develop the skills to write critiques and commentaries. Focus will be on history's effect on literature and literature's effect on history. Students will examine all facets of fiction, non-fiction, poetry, and drama of British collections. Vocabulary building will be stressed. In addition, students will compile information essays for their Career Passports.

Advanced English III

1 credit

ENG106

The Advanced English III course emphasizes the study of a variety of texts and writing tasks from American and English Literature. Students learn to recognize aims (to inform, to persuade, to express, etc.) and modes (narrative, descriptive, analytic, etc.) of discourse through reading and analyzing great literature, and then try to match in their own writing the sophistication of model material selected for study in the course. Advanced courses address learning objectives with greater depth and a faster pace along with higher expectations for student performance.

Composition

1 credit

ENG120

This is an elective course open to seniors who may not be planning any post-high school education. This course is designed to strengthen the grammar skills covered in English I & II. Students will be required to write in many different styles, from essays to letters (ex: business letters). Students will be required to read various types of literature from novels to articles and poems. Students will be required to read a novel. Students will work on their Career Passport.

Advanced Composition **1 credit** **ENG108**
Strongly suggested for college-prep students in grade 12. First semester: review of grammar, usage, and sentence structure. Students will also complete various research projects including a senior research paper and all assignments that lead up to the culmination of that project. Second semester: composition, paragraphs and longer papers- the research of thought and imagination. It may include study of the effective use of language and various literary forms for effective communications. Students will complete their Career Passports. Students will be required to read various types of literature from novels to articles and poems. Students will also read at least one non-fiction novel this year. **Prerequisite:** Must have earned 3 credits in English.

Sp. Topics in Literature **1 credit** **ENG109**
Students will explore a wide variety of literary topics. This course is an in-depth introduction to literary works written by a variety of authors. **Prerequisite:** Completion of English I

Public Speaking **1 credit** **ENG110**
This course will cover the analysis, formation, organization, development, and delivery of ideas and attitudes within contemporary issues by means of audience analysis and dialogue. Various rhetorical modes and groups projects are also included. **Prerequisite:** Successful completion of English I

Yearbook/Newspaper **1 credit** **ENG111**
Yearbook production offers students the opportunity to produce a record of Upper Scioto Valley. Students will learn feature writing, photography, photo editing, computer skills, advertising, and yearbook design. Students will also be involved in creating and designing the monthly newspaper. Students will be responsible for requesting articles, editing and organizing the articles. **Prerequisites:** Completion of English I/II

Mathematics

Algebra I **1 credit** **MAT151**
This is a comprehensive Algebra course which meets state graduation requirements. Topics highlighted in this course include, but are not limited to, solving equations, graphing lines, and solving systems of equations.

Geometry **1 credit** **MAT153**
This is a comprehensive Geometry course which meets state graduation requirements. Topics highlighted in this course include, but are not limited to, parallel and perpendicular lines, properties of right triangles, quadrilaterals, and circles.

Algebra II **1 credit** **MAT152**
This is a comprehensive Algebra II course intended for the student of average to above average math ability who plans to continue his/her education to Pre-Calculus the following year. This course meets state graduation requirements and includes, but is not limited to, topics such as factoring, properties of radicals, imaginary numbers, and quadratic functions.

Algebra II A **1 credit** **MAT142**
Algebra 2A covers Solving for a Variable, Operations with Polynomials/Radicals/Imaginary Numbers, Laws of Exponents, and Quadratic Equations. This is a comprehensive Algebra II course extending over two years, intended for the student who struggles with Algebra and Geometry. It is also designed for students who would prefer not to take Pre-Calculus the following year. Combined, these classes meet state graduation requirements, and include topics covered in Algebra II and more.

Algebra II B **1 credit** **MAT143**

Algebra 2B covers Matrices, Logarithms, Probability/Statistics, and any other topics needed that would be covered on the ACT. It is also designed for students who would prefer not to take Pre-Calculus the following year. Combined with Alg. II A, these classes meet state graduation requirements, and include topics covered in Algebra II and more.

Trig./Pre-Calculus **1 credit** **MAT156**

This course is intended for students strong in mathematics, who intend to pursue a college education. The course meets state graduation requirements and continues to prepare students for higher mathematics and/or for Calculus. Topics covered include, but are not limited to, Algebra II review, the unit circle, and trigonometry.

Calculus **1 credit** **MAT157**

Topics covered in this course are as follows: Conic sections, functions, limits, continuity, the derivative, derivatives of algebraic & trigonometric functions, applications of the derivative, Definite integral, antiderivatives, fundamental theorem of calculus, derivatives of logarithmic, exponential and inverse trigonometric functions, L'Hopital's rule and integration techniques as well as applications of the definite integral. It is possible that students are able to take this course as dual enrollment through Wright State-Lake Campus and receive college credit for Calculus 1 and Calculus 2. There will be an additional cost for this option.

Business Math **1 credit** **MAT158**

This course is designed to help students develop mathematical skills through practical applications and activities that emphasize the application of mathematics in many types of real-world endeavors. Topics may include earnings and taxes, checking and savings accounts, loans, insurance, automobile expenses and housing expenses.

Mathematical Modeling in STEM **1 credit** **MAT160**

In this course, problem based learning of mathematical modeling of real life processes and situations are emphasized. Students will use mathematics and statistics to analyze and describe processes and situations in mathematical models to be used in predications and decision making. Analytical models involving variables and their functional relationships will be developed, often using technology such as graphing calculators and computers to gather data, create representations, analyze data, and explore relationships between variables. Students will gain a deeper understanding of mathematical modeling and functions while improving and expanding their problem solving practices. **Prerequisite:** Must have teacher permission to enroll.

Music Education

Concert Band **1 credit** **BND894**

This course is designed for students joining band without prior experience or limited experience as well as students coming from Red band to develop lifelong appreciation for music. Students will also develop skills on selected instruments through performance and classroom participation. All performances are required.

Prerequisite: Red Band or permission of the director. Meets 1 period 5 days a week with required after school time commitments. Marching, pep, and concert band classes met all year.

Symphonic Band **1 credit** **BND890**

This course is designed to challenge students with prior musical experience to further develop their musical skills. We strive for inspiring a lifelong appreciation for music and furthering skills on selected instruments through performance and classroom participation. All performances are required. Meets 1 period 5 days a week with required after school time commitments. Marching band, pep band, and concert band classes meet all year and are each required.

Prerequisite: Concert Band or permission of the director.

Choir **1 credit** **CHR101**

The high school concert choir class is designed for students to apply musical skills as they continue to create and experience music as a musical ensemble. Students will continue developing mastery of solfege, major and minor scales, and 4 part harmonies. Students will convey musical interpretation with the use of dynamics and phrasing, while incorporating facial expression and movement for refined presentation. Students will understand how a musical composition is structured through listening and analysis.

Science

Physical Science **1 credit** **SCI201**

Physical Science explores the relationship between matter, forces, motion, and energy. Subject matter includes physical and chemical properties of matter, atomic structure, ionic and covalent bonding, electricity, waves, heat transfer, forces, motion, energy, and star formation. A scientific calculator is recommended.

Biology I **1 credit** **SCI211**

This course will be divided into five main content areas: Introduction to biology and biochemistry, the cell and cell processes, genetics, evolution and ecology. The curriculum is aligned with the state of Ohio indicators for 10th grade Life Science. **Prerequisite:** Completion of Physical Science.

Biology II **1 credit** **SCI212**

This course includes the study of anatomy and physiology of organisms including viruses, bacteria, protists, fungi, plants and invertebrate as well as vertebrate animals. Areas of interest will include organization, energy attainment, adaptations, movement, life cycles and reproduction. Coursework will include dissection of an invertebrate and vertebrate specimen. **Prerequisite:** Completion of Biology I.

Chemistry I **1 credit** **SCI204**

Subject matter will include an introduction to measurement, the Kinetic Theory of Matter, specific heat, atomic structure, The Periodic Table, periodicity, intramolecular and intermolecular forces, nomenclature, particle-wave equations, mole conversion problems, chemical reactions, balancing chemical equations, Lewis structures, VSEPR Theory, introduction to Gas Laws, and stoichiometry. A scientific calculator is a requirement for the course.

Prerequisite: Completion of Algebra II

Chemistry II **1 credit** **SCI205**

Course will begin with a review of important topics from Chemistry 1. Additional topics will include stoichiometry with limiting reactants, application of the Ideal Gas Law, solutions, specific heat calculations, Laws of Thermodynamics, enthalpy, entropy, acids and bases, and oxidation-reduction reactions. A scientific calculator is a requirement for the course. **Prerequisite:** Completion of Chemistry I.

Physics **1 credit** **SCI220**

This is a college preparatory course dealing with the fundamentals of mechanics, forces, vectors, work, power, energy, machines, waves and light, other forms of radiation, temperature change). Also covered are momentum, electricity, and magnetism. A scientific calculator is a requirement for the course. **Prerequisite:** Completion of Algebra II and Geometry.

Social Studies

American History

1 credit

SS319

This class is required for graduation and is to be taken during the freshman year. The focus of this class will be on world developments from an American viewpoint during the time period from 1877-Present. All elements of social studies will be stressed including history, geography, the social aspects, and politics.

Government

1 credit

SS301

This course is required for all 10th grade students. Government-Objectives are to increase the student's knowledge of the establishment and the functions of our government and to encourage a continuing study of governmental problems and solutions; to know and gain respect for law; to develop enlightened and interested civic minded citizens.

World History/Economics

1 credit

SS302

This course is designed so the student will understand the foundations of the countries in the world today. We will take a very close look at the progress in Europe focusing on the medieval period (renaissance, reformation) and the development of nations. We will also take a look at the emergence of nations in Africa, North and South America, as well as imperialism practiced by the leading countries of the world. Economics- Objectives are to provide the students with the basic economic principles needed to understand and manage money and our economy. **This course will be required for all 12th grade students.**

Economics

0.5 credit

SS300

Economics- Objectives are to provide the students with the basic economic principles needed to understand and manage money and our economy. **This is a required course for all 12th graders.**

Psychology

0.5 credits

SS335

This course is designed to help the student understand the basic fundamentals of Psychology. In Psychology, we start with the fundamentals of psychology starting with what a psychologist does and how they accomplish it. Then we move on to topics such as: how we mature, interpretation of dreams, visual perception, and how we cope with stress.

World Geography

0.5 Credits

SS303

This course will help students get an understanding of the world's people, places, and environments, with a focus on world regions. There will also be an emphasis put on the understanding and applying geographic concepts and skills to their everyday lives.

Sp. Topics in History

1. Credit

SS304

This is a year-long elective course. Each nine weeks will be a different topic, each of the topics will be looked at in depth. It will be largely research, discussion, and project based.

CC+ American History

1. Credit

RCCP AHIS 1

This is a course taught through Rhodes State Community College. Students will receive high school credit as well as college credit upon successful completion of the course. Provides the student with the basic historical structures in the United States from its discovery to Reconstruction. Specific insights will be gained through intensive study of moments in the nation's development and crises: discovery and colonialism, the decade of discontent and revolution, the founding of the republic, the institution of slavery, manifest destiny, the Civil War and Reconstruction.

Career Tech Programs *All courses are offered through Ohio Hi-Point Career Center*

9th Grade CBI

1 credit

CBI9

This course will help students gain a better understanding of themselves as individuals and what career areas they may be interested in. We will explore and research many different career fields and options. This class will also focus highly on employability skills that are needed in every work place. Through this class students will learn to plan a career and make career related decisions.

10th Grade CBI

1 credit

CBI10

This course focus on the business side of careers. You will learn basic economics, rights of consumers, using credit wisely, entrepreneurship, and investments. Through this class students will gain an understanding of how to be financially responsible.

11th/12th CBI

1 credit

CBI1112

This course is designed to take a deeper look into realistic career options. We will evaluate pathways and education/training requirements for chosen careers. Students will learn how to complete job applications and resumes, conduct interviews, and resign appropriately. We will also discuss interpersonal relationships on the job, workplace ethics, and balancing work and personal life.

11/12th Capstone

1-2 credits

CBICAP

Students will be able to leave work early to attend a job. Students must be enrolled in the CBI program and currently have a job coming into the school year, if not employed students will have 6 weeks to find employment. If students leave or lose their job, do not maintain good attendance, or become a problem at their job, they will be removed from the program at the discretion of the teacher. Students must have approval of the principal and the instructor.

- Juniors: 1 credit. Student must show evidence of having at least 270 hours at their job
- Seniors: 2 credits. In order to receive two credits, students must have worked 540 hours



What It Takes to Earn an Ohio Diploma

Students must meet both testing requirements and curriculum requirements in order to earn a diploma. See the two checklists below for more information about these two diploma requirements. The third section provides information about an alternative way to meet the testing requirements.

I. Curriculum Requirements

CURRICULUM REQUIREMENTS	STATE MINIMUM	ADDITIONAL LOCAL CREDITS	CREDITS EARNED TO DATE	CREDITS REMAINING	HONORS DIPLOMA CREDITS
English language arts	4 units	_____	_____	_____	_____
Health	½ unit	_____	_____	_____	_____
Mathematics	4 units ¹	_____	_____	_____	_____
Physical education	½ unit ²	_____	_____	_____	_____
Science	3 units ³	_____	_____	_____	_____
Social studies	3 units ⁴	_____	_____	_____	_____
Electives		_____	_____	_____	_____
Other requirements ⁶					
Economics and Financial literacy ⁶					Requirement met in _____ class/grade level.
Fine arts ⁶					Requirement met in _____ class/grade level.

¹Mathematics units must include 1 unit of algebra II or the equivalent of algebra II.

²The Ohio Core allows school districts to adopt a policy that would exempt students who participate in interscholastic athletics, band or cheerleading for two full seasons from the physical education requirement. Students must take another course of at least 60 contact hours in its place.

³Science units must include 1 unit of physical sciences, 1 unit of life sciences and 1 unit of advanced study in one or more of the following sciences: chemistry, physics, or other physical science; advanced biology or other life science; astronomy, physical geology, or other earth or space science.

⁴Social studies units must include ½ unit of American history and ½ unit of American government.

⁵Electives units must include one or any combination of foreign language, fine arts, business, career-technical education, family and consumer sciences, technology, agricultural education or English language arts, mathematics, science or social studies courses not otherwise required.

⁶All students must receive instruction in economics and financial literacy during grades 9-12 and must complete at least two semesters of fine arts taken any time in grades 7-12. Students following a career-technical pathway are exempted from the fine arts requirement.

AND

II Graduation Test Requirements

MEET ONE OF THE FOLLOWING THREE:

1. Ohio's State Tests

Students **earn a cumulative passing score of 18 points**, using seven end-of-course state tests. To ensure students are well rounded, they must earn a minimum of four points in math, four points in English and six points across science and social studies.

End-of-course exams are:

- Algebra I and geometry or integrated math I and II
- Biology
- American history and American government
- English I and English II

Students studying Advanced Placement (AP) or International Baccalaureate (IB) courses in biology, American history or American government may take and substitute test scores for end-of-course state exams to earn graduation points. Students also may substitute grades from College Credit Plus courses in these science and social studies subjects for end-of-course state exams.

2. Industry credential and workforce readiness

Students earn 12 points through a State Board of Education-approved, **industry-recognized credential or group of credentials** in a single career field and achieve a **workforce readiness score** on the **WorkKeys** assessment. The state of Ohio will pay one time for those who take the WorkKeys assessment.

3. College and career readiness tests

Students earn **"remediation-free" scores** in English language arts and mathematics on a nationally recognized college admission exam. The state of Ohio will pay one time for all 11th grade students in the classes of 2018 and beyond to take either the **ACT or SAT free of charge**. The student's district selection applies to all schools in the district for one school year. Test selection may change from one school year to the next.

Course & Lab Fees

All students:
Student Handbook \$7.00
Student Chromebook \$35.00
Student Appreciation Fee \$5.00

Art Education:

Art 7 \$10.00 lab fee
Ceramics \$70.00 lab fee
Advanced Ceramics \$90.00 lab fee
Art 1 \$40.00 lab fee
Art II, III/IV \$40.00 lab fee

English

English 1/2/3 \$14.00 Workbook fee
Comp/Advanced Comp \$14.00 Workbook fee

Foreign Language:

Spanish I \$15.00 Workbook
Spanish II \$15.00 Workbook
Spanish III \$15.00 Workbook

Mathematics:

Algebra \$5.00 materials fee
Geometry \$10.00 materials fee
Algebra II, IIA, & IIB \$5.00 materials fee
Pre-Calculus \$5.00 materials fee
Stem \$5.00 materials fee
Business Math \$5.00 materials fee

Music Education:

High School Band \$10.00 lab fee
High School Choir \$10.00 lab fee

Physical Education

Physical Education \$10.00 materials fee

Science:

Physical Science \$5.00 plus breakage
Biology I \$25.00 plus breakage
Biology II \$25.00 plus breakage
Chemistry I \$20.00 plus breakage
Chemistry II \$20.00 plus breakage
Physics \$20.00 plus breakage