UPPER SCIOTO VALLEY HIGH SCHOOL

2021-2022
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 2022	
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

*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.

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

[1]Math must include 1 credit of algebra II

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

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

[4]Electives 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	English	English	English
Physical Science	Biology I	Science	World History /Economics
American History	Government	Math	Math
Algebra I	Geometry	Electives	Electives
P.E./Health (8th grade)	P.E.		
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 or 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**

Stem Honors Diploma
Must meet nine of the following 10 criteria:

(a) **5** units of Math
(b) **5** units of Science, including 2 units of advanced science
(c) **3** units of Social Studies
3.5 Grade Point Average on 4.0 scale
(d) **3** units of Foreign Language, including at least 2 units in each language studied
(e) **1** unit of Fine Arts
(f) electives: 2 units in a focus in STEM
(g) **27 ACT/ 1280 SAT**

(d) Field Experience: complete a field experience and document the experience in a portfolio specific to the students area of focus.
(e) Develop a comprehensive portfolio of work based on the student's field experience or a topic related to the students are of focus.

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	English II Geometry Government	Adv. English III Algebra II or Pre-Calculus Chemistry, Biology II,	Advanced Composition Pre-Calculus or Calculus World History/Economics

P.E./Health Physical Science Electives in high interest areas* (i.e. music, art, technology, business, agriculture)	Physical Education Biology I Electives*	Electives*	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

Recommended Course Progression – Not all courses are offered each year

Grades 9, 10	Agriculture, Food and Natural Resources (AFNR)
	Animal and Plant Science (may take concurrently with AFNR)
Grades 10, 11, 12	Livestock Selection, Nutrition and Management
	Mechanical Principles
	Science of Food and Technology (offered in odd years)
	Meat Science and Technology (offered in even years)
	Business Management for Agricultural and Environmental Systems
Grades 11, 12	Agricultural and Environmental Systems Capstone*

*Students must be enrolled in or have completed Business Management for Agricultural and Environmental Systems

Additional College Credit for Qualified Students: Articulation at Clark State Community College for AGR 1250 (Animal Agriculture, 3 sem hours) and MATH 1200 (Technical Math for Agriculture, 3 sem hours). Students must pass proficiency examination to earn credit.

Industry Credential for Qualified Students: Students who meet <u>all</u> of the following three component criteria may apply for the AgriBusiness Association – Ohio Agribusiness & Production Systems Certification (12points).

Take Any 3 of These Courses & Pass the WebXam Each Course	Take This Course & Pass the WebXam for the Course	SAE Project(s)
• Agriculture, Food and Natural Resources (AFNR) • Animal and Plant Science • Livestock Selection, Nutrition, & Management • Mechanical Principles • Science & Technology of Food	• Business Management for Agricultural & Environmental Systems	• At least 500 hours documented in AET and consisting of entrepreneurial, placement, and/or research in an agriculture industry

Agriculture, Food and Natural Resources (AFNR) **1.25 credits** **AG611**
Subject Code: 010105
Industry Credential for Qualified Students: Earning a proficient Webxam score in this course fulfills part of the criteria to earn the Ohio Agribusiness Association – Agribusiness & Productions Systems Certification (12 points)

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**
Subject Code: 010125
Industry Credential for Qualified Students: Earning a proficient Webxam score in this course fulfills part of the criteria to earn the Ohio Agribusiness Association – Agribusiness & Productions Systems Certification (12 points)

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: AFNR

Business Management for Agricultural & Environmental Systems **1 credit** **AG627**
Subject Code: 010115
College Credit for Qualified Students: CTAG credit at any state institution with a course match for CTAGP003 (Agribusiness Management, 3 sem hours) or Articulated credit at University of Northwestern Ohio (UNOH) for AG 106 (Agribusiness Fundamentals, 3 sem hours)
Industry Credential for Qualified Students: Earning a proficient Webxam score in this course is a required component of the Ohio Agribusiness Association – Agribusiness & Productions Systems Certification (12 points)

Students will examine elements of business, identify organizational structures and apply management skills while developing business plans, financial reports and strategic goals for new ventures or existing businesses. Learners will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion and pricing strategies. Throughout the course, students will apply concepts of ethics and professionalism while implications of business regulations will be identified. (Offered opposite years of Communication and Leadership).
Prerequisite: AFNR or teacher approval.

Livestock Selection, Nutrition, & Management **1 credit** **AG622**
Subject Code: 010920
Industry Credential for Qualified Students: Earning a proficient Webxam score in this course fulfills part of the criteria to earn the Ohio Agribusiness Association – Agribusiness & Productions Systems Certification (12 points)

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.
Prerequisite: AFNR or teacher approval (**Not taught 2021-2022)**

Mechanical Principles **1 credit** **AG625**
Subject Code: 010120
Industry Credential for Qualified Students: Earning a proficient Webxam score in this course fulfills part of the criteria to earn the Ohio Agribusiness Association – Agribusiness & Productions Systems Certification (12 points)

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: AFNR or teacher approval. (**Not taught 2021-2022)**

Meat Science and Technology **1 credit** **AG612**
Subject Code: 011020
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: AFNR or teacher approval **(Not taught 2021-2022)**

Science and Technology of Food **1 credit** **AG612**
Subject Code: 011010
College Credit for Qualified Students: CTAG credit at any state institution with a course match for CTFSC001 (Introduction to Food Processing, 3 sem hours)
Industry Credential for Qualified Students: Earning a proficient Webxam score in this course fulfills part of the criteria to earn the Ohio Agribusiness Association – Agribusiness & Productions Systems Certification (12 points)

Students will examine the research, marketing, processing and packaging techniques applied to the development of food products. Learners will examine nutrient content and their chemical makeup, while applying principles of chemistry to the development of food products. They will examine and implement food safety, sanitation and quality assurance protocols. Government regulations and food legislation will be examined and the implications to food science and technology will be identified.
Prerequisite: AFNR or teacher approval.

Agricultural and Environmental Systems Capstone **1 credit, repeatable once** **AG630**
Subject Code: 010190
This is an education option for juniors and seniors who have a desire to extend their learning in a specialized area of agriculture or related fields. This cooperative education program can be completed through working for an agricultural or related business, establishing and successfully operating an agricultural related small business, performing research or other projects decided upon by student, instructor and other parties. The student and the instructor will decide what type of project will be elected, the time requirements for the project and the method of evaluation. All students must have an approved Supervised Agricultural Experience (S.A.E.) for their capstone program. Job Placement and Agribusiness S.A.E. requirement can be fulfilled by required hours for early release, after school, on weekends or in the summer. Other program requirements will be agreed upon by instructor, student and other parties. Students will sign an agreement form that has specific rules and regulations that must be followed. Students must also maintain records of their capstone program. Students who do not comply with these rules and regulations will not be permitted to continue with their program. Total credits allowed will be determined by the type of project and agreements by student, instructor and other parties.
Prerequisite: Students **must** have completed 2 Agriculture courses and have completed or be concurrently enrolled in Business Management for Agricultural and Environmental Systems and meet during the day; principal and teacher approval required.

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**

Students will continue to develop listening, speaking, reading, and writing skills through the study of thematic units. Vocabulary, grammar concepts, and cultural comparisons will become increasingly complex in order to develop greater fluency. Students are expected to participate in 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. **Prerequisite:** Minimum "C" average in Spanish I

Spanish III **1 credit** **SP459**

Students will increase their proficiency in listening, speaking, reading and writing as well as develop a deep appreciation for the culture. The use of art, literature, and other authentic language input will be emphasized. Students are expected to participate in an increasingly interactive environment and communicate in the language in simulated life situations. Additional practice of these language skills outside of the classroom is required to further develop proficiency. **Prerequisite:** Minimum "C" average in Spanish II.

Health & Physical Education

Health Education **0.5 credit** **HEA891**

Upon the successful completion of this course, students will be able to understand the functioning of their body and the importance of making wise decisions to protect their health and well-being. The foundation of a healthy teenager is the knowledge that their health is in their hands and is based upon their day-to-day decisions. Students will be able to base present and future decisions, on topics such as drugs, alcohol, sexual relationships, diet, and exercise, upon knowledge of current facts rather than upon hearsay from friends and media. Topics related to health such as personal health and wellness, social and emotional health, safety, nutrition and physical activity, alcohol/tobacco/other drugs, HIV and STI's Prevention, and sexuality education will be discussed. Emphasis will be placed on the student's acquiring knowledge and assuming responsibility for one's own health.

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.

Advanced Physical Education **0.5 credit** **PE891**

This course will provide learning opportunities for students to further develop skills and knowledge related to fitness, physical competence, cognitive understanding, and positive attitudes about physical activity that promote a healthy and physically active lifestyle. Students will acquire knowledge and skills in recreational, athletic and lifetime activities. The emphasis is on active participation, sportsmanship, teamwork, developing organization skills and supporting reading and writing across the curriculum.

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. (**Not taught 2021-2022)**

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. **Prerequisite:** Completion of Informational Technology or instructor approval. **(Not taught 2021-2022)**

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 **(Not offered 2021-2022)**

Drone Certification **1 credit** **Drone**
This Ohio Hi-Point course prepares students to take the Part 107 Certification Exam to become a licensed drone pilot. During the course students will fly drones and work on the knowledge competencies for the Part 107.

Animation **1 credit** **Animation**
Students will use animation and storyboarding techniques to plan the production of an animation project. Students will design from script and storyboard actions in the pre-production planning process. Students will use commercial and open-source digital animation software to create finished animations, cartoons, and other short movies. They will accomplish this using animated text, character movements, voice, background sound, sound effects, camera movements, and multiple scenes. **Prerequisite:** Completion of Informational Technology or instructor approval.

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.

Newspaper/Yearbook **1 credit** **News/Year**

Yearbook is an elective offered to high school students. IN this course, students work beside the advisors to capture pictures for the school yearbook. Students will upload these pictures and work to create a finished product, The Sciotan yearbook, by the end of the year. Additionally, this course focuses on journalism skills including; writing articles, editing, interviewing, and more. Students in this course publish articles, print and deliver copies of the monthly school newspaper.

Special Topics in History **1 credit** **Spec Top**

This course is taught on a topic rotation basis. For the 2021-2022 school year the course material that will be taught will cover **Detective Fiction/Crime Scene Investigation**. This course is an ELA elective that focuses on detective fiction, true crimes stories, and the horror genre. In this course, students will read stories and novels related to solving crime. Additionally, students will complete case solving activities and listen to true-crime podcasts. If you are interested in crime scenes or mystery, then this course is for you!

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 Parent Functions, Polynomials, 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.

Business Math **1 credit** **Business Math**
Business Math covers financially literacy such as banking, budgeting, types of pay, payroll deductions, purchasing cars and houses, loans, taxes, and investing.

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 and extension, 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'Htpital'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. (**currently not offered)**

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. **(currently not offered)**

Music Education

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

This course is for students with prior musical experience to further develop their musical skills in an instrumental environment. We strive to inspire a lifelong appreciation for music. We also hope to further musicianship skills, instrumental skills on selected instruments, and knowledge of music theory and music history. All of this is achieved through required performances and classroom participation. This class meets during the day, but also has a large amount of required after school commitments. Marching band and pep band are also a requirement of this course and meet all year. **Prerequisite:** Performance in a middle school music ensemble or permission of the director.

High School Choir **1 credit** **Choir**

This course is for students with prior musical experience to further develop their musical skills in a vocal environment. We strive to inspire a lifelong appreciation for music. We also hope to further musicianship skills, foster a healthy development of the voice, and knowledge of music theory and music history. All of this is achieved through required performances and classroom participation. This class meets during the day, but also has required after school commitments. **Prerequisite:** Performance in a middle school music ensemble or permission of the director.

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 10^{th} 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, protests, 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 suggested tool 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 from 1915-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 close look at the progress in Europe, focusing on the Enlightenment period and the development of nations. We will also imperialism practiced by the leading countries of the world, leading into the Industrial Revolution, World War I and II, and ending with the Cold War. 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.

Sociology **0.5 credits** **Soc**

This course studies the interactions between people within their own social environment and outside environments. A special emphasis is placed on the ability to observe other cultures and social practices with an open mind free of personal prejudices.

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 word regions. There will also be an emphasis put on the understanding and applying geographic concepts and skills to their everyday lives.

CCP US History 1 **1 credit**

This course is offered as a 3 credit College Credit Plus course. Students will analyze the social, political, and cultural changes that coincided took place in the United States from colonization through reconstruction.
Prerequisite: Students must complete all necessary paperwork College Credit Plus for Rhodes State College and USV.

CCP US History 2 **1 credit**

This course is offered as a 3 credit College Credit Plus course. Students will analyze the social, political, and cultural changes that coincided took place in the United States from the End of Reconstruction to Present Day
Prerequisite: Students must complete all necessary paperwork College Credit Plus for Rhodes State College and USV.

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

9th/10th Grade CBI **1 credit, repeatable once** **CBI910**
Subject Code: 252525

In this course, students gain a better understanding of themselves and individual, match personal traits to career options, and investigate how classroom learning translates into marketable skills. The course focuses highly on employability skills needed in various career fields, planning for a career, and making career-related decisions. Students will also investigate how to become financially responsible, including topics such as basic economics, consumer rights, credit concepts, entrepreneurship, and inventing.

11th/12th CBI **1 credit, repeatable once** **CBI1112**
Subject Code: 252525

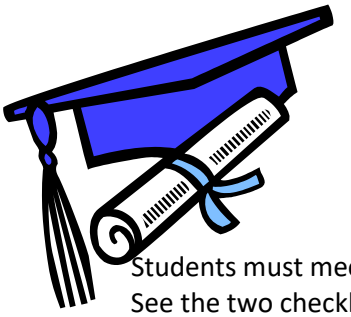
This course is designed to take a deeper look into realistic career options and will stress job seeking skills in 21st century career fields. Students will learn how to evaluate education/training requirements, complete job applications, create resumes, interview, and resign appropriately. Other topics include interpersonal relationships on the job, workplace ethics, and balancing work and personal life.

Job Placement **1-2 credits** **CBICAP**
Subject Code: 252010
Open to Juniors and Seniors, must have approval of principal and instructor

This is an "on the job" placement experience, rather than a traditional classroom course. The student is evaluated by the employer and instructor each nine weeks. The student, employer, and coordinator write a job description of the student's work station or work assignment that includes, at minimum, skills needed to perform the job duties as well as safety rules and regulations. The coordinator makes regular visits to the job site and charts the progress of the student. **TRANSPORTATION IS A MUST FOR EVERY STUDENT IN THE PROGRAM. STUDENTS MUST BE EMPLOYED AT A W-2 WAGE-EARNING JOB.** Exceptions may be considered by the instructor. A student may earn up to 2 credits per year for the successful completion of the job training experience.

- 1 credit - Students must show evidence of working at least 270 job hours.
- 2 credits - Students must show evidence of working at least 540 job hours.
- Juniors are permitted to leave 1 period.

- Seniors are permitted to leave 2 periods.
- Students are not required to leave early, and they do NOT have to go directly to work after leaving school.



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.				

[1]Mathematics units must include 1 unit of algebra II or the equivalent of algebra II.
[2]The 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.
[3]Science 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.
[4]Social studies units must include ½ unit of American history and ½ unit of American government.
[5]Electives 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.
[6]All 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 for the Class of 2021/2022

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
Music Education:	
High School Band	$10.00 materials fee
7-12 Choir	$10.00 materials 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