

Johnstown High School

Program of Studies

2024-2025



Educating students today for the challenges and opportunities of tomorrow.

www.johnstown.k12.oh.us

445 S. Main St., Johnstown, Ohio 43031

(740) 967-2721

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Common Terminology

Carnegie Unit – A measure of the amount of time a student has studied a subject. For example, a total of 120 hours in one subject -- meeting 4 or 5 times a week for 40 to 60 minutes, for 36 to 40 weeks each year -- earns the student one "unit" of high school credit.

Elective - courses that a student may select beyond the core requirements to fulfill the credit requirements for graduation in the State of Ohio.

FAFSA, FAF - Financial aid forms for determining financial need for colleges and scholarships. These are available in the guidance office.

Fine Arts - Examples that could satisfy this requirement are Art, Choir or Band (marching, concert, stage band). Please check individual university requirements.

Graduation Seal- Students in the graduating class of 2023 and beyond must earn two diploma seals. The seals represent the student's ability to demonstrate mastery in an academic, technical or professional skill.

Prerequisite - Background for taking a certain course or subject. This could include grades, grade level, previous course or experience, hobbies, interests and ability.

Pupil load, credits carried - Students need to earn 5.25 credits per year in order to progress and remain on a 4-year track toward graduation.

Records release - A form obtainable from the guidance office or the principal's secretary authorizing the school to release transcripts and/or school records to another institution or individual. Students under 18 will need a parent signature to release any records.

Required subject - State of Ohio or local school board mandates some subjects to be required for graduation.

Semester course - One half of the school year, usually expressed by: 1st semester, 2nd semester.

Transcript - A complete record of courses taken, and grades and credits earned. If a student is under 18, a parent must sign a release form before a transcript will be released.

Weighted course - A weighted class is worth more points toward a student's grade point average than a regular course.

Assessments

Accuplacer - The purpose of the Accuplacer tests is to evaluate the mathematics, reading and writing skills of test-takers. Some individuals may also take the Accuplacer tests during high school to determine if they are ready to pursue postsecondary studies or to identify areas where they need to improve to be ready for college.

ACT, SAT - College entrance exams. Usually, the exams are taken late in the junior year or early in the senior year. They may be repeated. Forms are available in the guidance office.

ASVAB-The Armed Services Vocational Aptitude Battery (ASVAB) is a multiple-choice test, administered by the United States Military Entrance Processing Command, used to determine qualification for enlistment in the United States Armed Forces.

End of Course (EOC) -There are six subjects for which a student will be tested with an end-of-course exam. Those six subjects are Algebra I, Geometry, English 10, US Studies, American Government, and Biology. A student can earn one to five points on each EOC. Students have the potential to earn a total of 30 points. EOC scores can be used to fulfill a graduation pathway.

WorkKeys- The Industry credential and workforce readiness pathway means that students must 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 WorkKeys assessment has three sections: Applied Math, Graphic Literacy, and Workplace Documents.

New Johnstown High School Courses for 2024-2025

2400 Advanced Placement Calculus AB - Full Year Course

Prerequisite: Successful Completion of Algebra I, Geometry, Algebra II

Content: Advanced Placement Calculus AB credit; full year; weighted course; NCAA approved

The course will further the students' problem-solving ability through the study of calculus and its related applications. The topics studied in Advanced Placement Calculus AB are those traditionally offered in the first year of calculus in college, and designed for students who wish to obtain a semester of advanced placement in college. The topics include limits, continuity, derivatives, and integrals of algebraic and transcendental functions and their applications, and elementary differential equations. Graphing calculator required. Students enrolled in this course will be eligible to enroll in AP Calculus BC during the 2025-26 school year.

2134 Modeling and Reasoning

Full Year Course

1 Credit

Prerequisite: Successful completion of Algebra I and Geometry

The Mathematical Modeling and Reasoning (MMR) course is an advanced quantitative reasoning course. Quantitative Reasoning (QR) is the application of fundamental mathematics skills, such as algebra, to the analysis and interpretation of quantitative information (numbers and units) in real-world contexts to make decisions relevant to daily life. Critical thinking is its primary objective and outcome. It emphasizes interpretation, representation, calculation, analysis/synthesis, assumptions and communication. This course can be used as an Algebra II equivalent course.

7540 Financial Literacy

Semester Course

1/2 Credit

Content: This course examines the ability of individuals to use knowledge and skills to manage limited financial resources effectively for a lifetime of financial security. Topics include banking, budgeting, consumer debt, purchasing homes and vehicles, etc.

8015 Graphic Design and Commercial Art I

Semester Course

1/2 Credit

Prerequisite: Intro to Art

Content: Graphic Design and Commercial Art focuses on the real-world application of art and design. Thanks to a generous grant from Meta New Albany Data Center, you will learn hands-on how to operate technology such as laser engravers, vinyl printers, 3D printers, etc. In this class, you will be designing and producing products for the school district including banners, posters promoting school events, tee shirts, and window coverings. This class provides you with an opportunity to make an enduring impression on the culture of Johnstown.

8016 Graphic Design and Commercial Art II

Semester Course

1/2 Credit

Prerequisite: Intro to Art and Graphic Design and Commercial Art 1

Content: Graphic Design and Commercial Art 2 focuses on the real-world application of art and design at a higher level and will include creating and designing projects and materials for the community and or local businesses, including the other schools in the district.

8017 Graphic Design and Commercial Art III

Semester Course

1/2 Credit

Prerequisite: Intro to Art and Graphic Design and Commercial Art 1 and 2

Content: Graphic Design and Commercial Art 3 will continue to focus on the real-world application of art and design at a higher level and will include creating and designing projects and materials for the community and or local businesses including the other schools in the district.

9300 Health

Semester Course

½ Credit

Content: Health is designed to answer the need of young people for accurate information about the functioning of their bodies and about the help provided by modern science and medicine. The focus is placed on physical, social, and emotional well-being. Development of decision-making skills will be a part of this course. One section of this course must be completed to meet the graduation requirements.

9320 OHSAA Officiating Course

Semester Course

1/2 Credit

Content: This course covers the basics of officiating and will lead to at least one officiating license.

Multi-Skilled Technician I (grades 11-12)

Credit: 2.0

Full Year Course

Credential: SACA, Industry 4.0 Basic Operations and Advanced Operations

Content: Students will learn the production processes applied across manufacturing operations. Students will be able to demonstrate a broad array of technical skills with an emphasis given to quality practices, measurement, maintenance and safety. They will also examine the basic drives of such mechanisms as electric motors and hydraulic & pneumatic actuators. A major focus will be on AC/DC Electricity, Electronic Sensors and Electronic Controls and Hydraulics.

The Educational Program of Studies

School Counselor/Guidance Office

Counseling Services Staff and Contact Information

Ms. Debbie Merrill – School Counselor and Junior Class Advisor – damerrill@jmk12.org

Mrs. Shannon Cox – Student Support Specialist – scox@jmk12.org

Ms. April Thomson – Guidance Office Administrative Assistant – athomson@jmk.12.org

Services provided by the counseling staff are available for all students. The school counselor is available to every student who wishes to discuss matters such as career planning, educational planning, college planning, and emotional and social development issues. Each student is encouraged to talk with the school counselor in the guidance office whenever questions or problems arise.

District-Post-Secondary Counseling Services

Students and their families are encouraged to use the post-secondary services available through the guidance office.

Guidance is available in college planning, the college application process, financial aid, College Credit Plus options, and scholarship searches.

College Representative Sessions

Representatives from various colleges and universities visit Johnstown High School during the school day to share information with prospective students. These visits will be announced during morning announcements posted on the guidance bulletin board and posted under the guidance section on the Johnstown High School website.

College Campus Visits

Seniors and juniors are permitted up to three absences during the school year to visit a college/university. Sophomores and freshmen must have prior approval from the school counselor to take a school recognized college visit. Students must complete a college visitation form (Blue Form) prior to the scheduled visit. College visitation forms can be located on the guidance bulletin board and under the guidance section on the Johnstown High School website.

Transcripts

Requests for transcripts of high school grades are made through the guidance office. As a general rule, official transcripts will be released and mailed to colleges/universities/scholarships agencies by the guidance office secretary. Transcripts are processed within 24 hours of the request and the next business day if the transcript request form is submitted on a Friday.

All transcript requests must be made by completing the online transcript request form. Any requests made not using a transcript request form will **NOT** be fulfilled.

Letters of Recommendation

Letters of recommendation should be requested 2 weeks in advance. Students should carefully consider who they request letters of recommendation from and give plenty of time to compose a letter. Students will need to submit a resume to the teacher and/or the school counselor when asking for a recommendation. Each letter written by a teacher or school counselor can take a considerable amount of time, so students should be judicious with who they ask for a letter and be sure to thank the teachers who write letters of recommendation for them.

Work Permits

Work permits are mandatory for any student under the age of 18 who has obtained a job. This form **MUST** be filled out by the parent/guardian, employer, and a doctor before submitting it to the guidance office. If any of these sections are not completed, the work permit application will be returned. Work permits can be found on the guidance bulletin board and under the guidance section on the Johnstown High School website.

Student Success Plans

Any student in grades 9-12 who has been identified as at-risk based on assessment scores and projections within Ohio Value Added system, will have mandatory meetings with the school counselor and their parent/guardian. A student success plan will be implemented to help at-risk students set future career/college goals. This plan will be placed into the student cumulative file.

Freshman Future Planning

Freshmen will meet with the school counselor once per nine-week grading period and begin thinking about identifying their E (Employed, Enlisted, or Enrolled Pathway). Students will complete a career interest survey prior to registering for their sophomore year.

Sophomore Future Planning

Sophomores will continue to work with the school counselor to refine their E Pathway. Sophomores will take a field trip to C-TEC to explore the various opportunities C-TEC has to offer. Sophomores will also meet with the school counselor once per nine-week grading period regarding future plans. All sophomores will be enrolled in the Career Exploration course for one semester. Those interested will complete the application to attend C-TEC.

Junior Future Planning

Juniors will work with the school counselor throughout the school with a focus on helping students identify their E Pathway. They will have the opportunity to take the ACT in March for free, take two college visits to local colleges, start making a college list, and make a timeline for their senior year. Juniors will attend the Career Xpress event hosted by C-TEC in the fall. Juniors will also have the opportunity to work with the career advisor from C-TEC to research 12th grade only programs and/or Career Tech. Adult Education programs.

Senior Future Planning

Seniors will work in coordination with the school counselor to refine their E Pathway and to ensure that they are on track for graduation and their post-graduation plans. The school counselor will also schedule a college visit in the fall for any interested seniors. All Seniors will participate in at least one mock interview and a college/career fair opportunity.

Policies & Procedures

Physical Education Waiver

Students in grades 9-12 may be excused from the physical education course requirement by participating in district-sponsored interscholastic athletics, marching band, or cheerleading for at least two athletic seasons during high school grades 9-12. High school students in grades 9-12 who meet this requirement will not be required to complete any physical education course as a condition to graduate. Students who are receiving a PE waiver will need to complete an extra ½ credit of an elective.

Community Service

All students are required to complete at least 60 hours of community service. Community service hours can start being earned during the summer between students' 8th and 9th grade transition. Under the guidance section on the Johnstown High School website, you can find opportunities for students to earn community service. Students will be using SchoolLinks to track and verify hours. A one-page paper is due once community service hours have been completed. Once this community requirement has been fulfilled, students should submit all paperwork to the Guidance office. Students will earn a "S" and it will be added onto their transcript once all paperwork is submitted. No credit is granted for completing this requirement.

Credit Earned in Middle School

Students successfully completing high school courses in middle school, will be granted the equivalent high school unit of credit for each course completed. Credit will be awarded and calculated in the cumulative grade point average upon entrance to the high school.

Early Completion of Graduation Requirements

It is possible for a student to organize his/her schedule of studies to complete graduation requirements in less than the traditional four-year sequence. In such situations, the student may pursue any post-high school option open to the regular four-year graduate. In the situation of 3.5-year completion, there is no mid-year graduation ceremony; however, a student is eligible and encouraged to return and participate in the graduation exercises of that year's class. If this option is exercised, it is the responsibility of the student and parent to make arrangements with their high school counselor prior to the semester in which graduation requirements are to be completed. To be considered for early graduation, the application form **must** be turned into the school counselor a minimum of nine weeks prior to the completion of all coursework.

- A. Procedure for applying for permission to graduate early:
 - 1. Students receive application forms from the school counselor.
 - 2. Completed application must be signed by parent, listing reasons for request. Completed application is returned the school counselor.
 - 3. School counselor will review application and set up a meeting with the parent.

Method of Determining Grade Point Average

A student's Grade Point Average (GPA) is determined by converting all semester letter grades to the numerical value assigned to these grades and then adding these points to determine a total point value. Johnstown's GPA calculation takes in account the difficulty of the course. The cumulative GPA is not affected negatively by the number of credits a student earns. For information on the formula used to calculate the cumulative GPA, please see the school counselor.

Summer School

Students seeking to earn credit from courses other than the regular school program should consult with their school counselor. Credit for failed subjects may be made up in summer school, tutoring (as per board policy), or online. Any coursework beyond the regular school program must have the final approval of the principal before credit can be earned. All options other than repeating the course at Johnstown High School will be the parents' responsibility and at their expense.

Schedule Changes

Schedule changes will be allowed only for the following academic reasons:

- 1. Required course omitted from the schedule.
- 2. Prerequisite for selected course not completed.
- 3. Clerical or computer error during the registration process
- 4. Insufficient credits
- 5. Acceptance into College Credit Plus

Reasons Schedule Changes will NOT be considered:

- 1. A dislike of the course
- 2. A dislike of the teacher
- 3. The rigor of the course
- 4. A desire for a different lunch
- 5. A desire to have friends in course.

The school counselor will communicate schedule change deadlines and procedures when schedules are created and released for review.

College and Career Planning

What's Your E?

Upon exiting Johnstown High School, all students should be able to identify what path they will be following after graduation. Students will begin working with their counselors during their freshman year to identify their E.



Career & Technology Education Center (C-TEC)

Students who would like to enroll at C-TEC should plan to take the vocational preparatory curriculum during the ninth and tenth grades. C-TEC's admission process emphasizes high academic achievement, low absenteeism, good behavior, and a positive attitude toward learning. The programs available at C-TEC include:

- Automotive Technologies
- Clinical Care
- Construction Technology
- Cosmetology
- Criminal Justice
- Culinary Arts
- Dental Assisting
- Diesel and Power Equipment Mechanics
- Digital Design and Interactive Media
- Electrical Trades
- Electronic and Computer Technology
- Engineering and Computer Integrated Design
- Firefighting and Emergency Medical Service
- ITEC
- Medical Assisting
- Multi Skilled Technician -JHS Only
- Physical Therapy and Exercise Science
- Robotics and Automated Manufacturing
- Teaching Careers
- Veterinary Science
- Welding and Metal Fabrication

Columbus Zoo

The Columbus Zoo offers a half day program for high school juniors and seniors who are interested in zoology, veterinary medicine, or other related studies. The Zoo School is designed to give students greater insight and understanding of the excitement and demands of science. The program curriculum is zoology driven, researched focused, rich in the use of technology, and application based. Admission to the Zoo School is selective, and seats are limited. Student qualities include self-motivated, direct learner, responsible, reliable, and curious with a desire to produce high-quality work. Students earn high school credits in science, math, and electives. College credits are also available. The student's family is responsible for assuring that daily round trip transportation is provided for their child. Interested students should contact their school counselor to learn more and discuss application procedures early in their high school career to ensure deadlines are met.

Licking County Mentorship Program

Each spring, there is a meeting during school for students interested in participating in the Licking County Mentorship Program. Interested students will need to complete an application and list their career interests. The Licking Regional Education Service Center will work to pair students with a professional in the career area they are interested in. Students will receive a .5 credit and can use this experience to take the place of the Career Search class.

Ohio Means Jobs

OhioMeansJobs.com is Ohio's premier free, virtual employment and career planning center. This online hub serves all Ohioans – and it has a special section just for students in grades K-12. Ohio Means Jobs K-12 can help students find careers that match their interests. They can learn what it takes to find a job they love, get help with their resumes, learn about internships and part-time jobs if they are old enough, and plan for their future. For students, begin by going to OhioMeansJobs.com and clicking on the K-12 icon – the cardinal in a graduation cap. Once you do this, you will be able to register for a K-12 account. Students can store all their important information in an online backpack- things like their budget plans, career plan, and information about education and training programs, resumes, and job search results. Students can also access free practice college entrance and career tests.

College Admission Testing

PSAT – The Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test (PSAT/NMSQT)

The PSAT/NMSQT, is a preliminary version of the college entrance examination Scholastic Aptitude test (SAT), is primarily designed for college bound juniors. Students who plan to go to college are urged to take this test, because it attempts to measure the academic skills necessary for success in college. The PSAT is one of the first steps in the college entrance testing process and serves as an excellent preparation for other college entrance examinations. In addition, it is the mandatory qualifying test for juniors who wish to participate in scholarship programs and honors administered by the National Merit Scholarship Corporation (NMSC). The PSAT offers students and their parents an opportunity to evaluate critical reading, mathematical and writing skills, which are considered necessary for a successful experience in higher

education. Students with learning disabilities may request extended time or special accommodations by talking with their school counselor by early spring of their freshmen year, in advance of registration deadlines. The PSAT will be administered every mid-October. Students will be able to register for the PSAT in early September. At the time of registration, the registration fee will be collected. Students who do not pay the fee at the time of registration will not be registered. African American and Hispanic students who wish to participate in the National Achievement Scholarship Program for outstanding African American students or the National Hispanic Recognition Program must take the PSAT.

SAT

The SAT is an admission test accepted by all U.S. colleges, and the College Board has programs to encourage all students to take advantage of higher education. Like other assessments in the SAT Suite of Assessments, the new SAT includes a Reading Test, Writing and Language Test, and a Math Test. The SAT has an optional essay component, which some colleges will require. SAT questions focus on skills that matter most for college readiness and success, according to the latest research. Students should register for the SAT at: <https://collegereadiness.collegeboard.org/sat/register>

ACT

The ACT is the leading US college admissions test, measuring what you learn in high school to determine your academic readiness for college. The ACT is a national college admissions examination that consists of subject area tests in: English, Mathematics, Reading, Science. The ACT Plus Writing includes the four subject area tests plus a 30-minute Writing Test. ACT results are accepted by all 4-year colleges and universities in the U.S. The ACT includes 215 multiple-choice questions and takes approximately 3 hours and 30 minutes to complete, including a short break (or just over four hours if you are taking the ACT Plus Writing). Actual testing time is 2 hours and 55 minutes (plus 30 minutes if you are taking the ACT Plus Writing). The ACT is administered on five test dates—in September, October, December, February, April, and June. Students should register at: www.act.org

JHS School Code: 362755 This code will be used when registering for the SAT and ACT.

Alternative Course Delivery Options

Credit Flexibility

Johnstown High School recognizes that an effective educational program provides opportunities for students to customize aspects of their learning around their respective needs and interests. Credit flexibility is one method to motivate and increase student learning by allowing access to more resources, customization around individual student needs, and the use of multiple measures of learning.

Credit flexibility shifts the focus from "seat time" to performance. Students can earn units of high school credit based on an individually approved credit flexibility plan. The intent of credit flexibility is to meet increased expectations for high school graduation in response to globalization, technology and demographics, and to meet the demand for 21st century skills. See your school counselor if you are interested in credit flexibility options.

Independent Study

Opportunities for students to pursue self-directed credits are available through the independent study option. Educational plans for such studies are reviewed and approved by parents, school counselors and teachers of record. Please see your school counselor if you are interested in independent study options.

Johnstown's Online Learning Tools (PEAK)

Students must be recommended for this program due to prolonged absences from school or have transferred from another state with different graduation requirements. To be considered for program eligibility, please contact the school counselor.

College Credit Plus (CCP)

The College Credit Plus (CCP) program, formerly PSEO and dual credit, is designed to provide JHS students the opportunity to complete college course work while still in high school, at no cost to families. The program is designed for students, grades 7-12, who have demonstrated **college** readiness and are looking to jump start their college experience. Upon successful completion of the course, students will earn transcribed college credit as well as high school credit for successful course completion. This program allows families to save thousands of dollars in tuition while giving students an early start on their post-secondary plan. Through partnerships with Central Ohio Technical College (COTC), Columbus State, and other institutions of higher education, students are provided a large selection of General Education courses from which to choose. Criteria for taking a course through College Credit Plus are listed below:

- Acceptance by the Institution of Higher Education.
- Meet all the application and enrollment deadlines set by the Institution of Higher Education.
- Meet all prerequisites for the desired course(s).
- If the student fails to complete the course or receives a failing grade, the family is liable for all financial obligations.
- Transportation, if needed, will be the responsibility of the student/parents.
- Text and related supplemental materials purchased for the student by the district, are the property of the district. At the end of the course, students are responsible for returning texts and supplemental materials to the high school Media Specialist. Failure to return these materials will result in book fines.

Advantages of College Credit Plus

For the student who is eligible for College Credit Plus, he/she must be academically ready for college level courses and be willing to follow the procedures outlined by the university while still in high school. Students will enjoy the following benefits:

- Students will earn (transcribed) college credit and high school credit upon successful completion of the course.
- Accelerate achievement of educational goals
- Eliminate duplication of high school and college course content
- Increase the rigor and challenge of course offerings while in high school.
- Decrease the cost of college with course tuition paid for by Johnstown School District

How does my child get involved in College Credit Plus?

- **Step one** – Students AND parents must attend a mandatory meeting to go through counseling regarding the College Credit Plus program. This meeting is mandatory each year for new and returning College Credit Plus program applicants.
- **Step Two** – Students will participate in a College Credit Plus application day for the college of their choice. Students will need their Social Security number in order to be able to complete the College Credit Plus application.
- **Step Three** – Students will take the placement tests in the desired subject area. If a student has met the placement scores through the ACT, then the student will not have to take the test; however, some universities will only accept the ACT/SAT as their placement test.

Once these steps are completed and a student meets the qualifications to participate in the College Credit Plus program, students and parents **MUST** attend a **MANDATORY** meeting to review remaining details to ensure the student is registered for the courses they desire.

Sample College Credit Plus Pathways

Associate of Arts (AA to BA path): Pathway 1: Up to 15 credit hours

FIRST SEMESTER

Course	Course Title	Credits
COLS 1100	First Year Experience Seminar **	1
ENGL 1100	Composition I *	3
MATH 1116	Math for Liberal Arts *	3
HIST 1152	American History since 1877 *	3
Total Credits	.	10

SECOND SEMESTER

Course	Course Title	Credits
ENGL 2367	Composition II *	3
SOC 1101	Introduction to Sociology *	3
Total Credits	.	6

Associate of Arts (AA to BA path): Pathway 2: Up to 30 credit hours

FIRST SEMESTER

Course	Course Title	Credits
COLS 1100	First Year Experience Seminar **	1
ENGL 1100	Composition I *	3
MATH 1148	College Algebra *	5
HIST 1152	American History since 1877 *	3
SOC 1101	Introduction to Sociology *	3
Total Credits	.	15

SECOND SEMESTER

Course	Course Title	Credits
ENGL 2367	Composition II *	3
MATH 1149	Trigonometry *	4
GEOL 1151	Natural Disasters *	3
ECON 2200	Principles of Microeconomics *	3
Total Credits	.	13

Planning Your Program of Studies

How to Plan Your Program of Studies

Students are encouraged to carefully plan a program of studies that will assist them in reaching their educational and occupational goals. Course descriptions are designed to guide students in selecting the subjects that will lead them toward achieving their goals.

It is important that you select courses to ensure college and career readiness. We suggest that students:

- Review all requirements for graduation.
- Look over the sequence charts which suggest course patterns that lead to specific education and/or career goals; and
- Use your Course Planner form and complete the quadrants for your four-year program, paying particular attention to graduation requirements.



Johnstown High School will make every effort to maintain current records and to keep students and parents informed about the status of progress toward completing the necessary coursework for graduation requirements. However, it is each

student's and parent's responsibility to be acquainted with the necessary requirements to meet this goal. The school counselor is always available to meet and assist your family with this endeavor.



Student Learning Pathways



It is important that students and their families carefully consider courses, programs, and experiences during the four years of high school. To help students take full advantage of all Johnstown High School has to offer, we have designed the following Learning Pathways and course options.



Many courses in the Learning Pathways have specific prerequisites. It is important that students plan ahead to ensure eligibility and availability of courses because not all courses can be offered every year. The Learning Pathways are suggested sequences of courses for students with differing backgrounds and differing expectations. Although a student may begin a certain sequence, he or she may move between or complete more than one Learning Pathway throughout high school.

Arts and Humanities Pathway						
		Grade 9	Grade 10	Grade 11	Grade 12	Partners
P E R F O R M I N G		Algebra 1, Geometry, Algebra 2	Geometry, Algebra 2, COTC Math-150, COTC Math-130	Algebra 2, Statistics, Precollege Math, COTC Math-150, COTC Math-130, COTC Math-200, AP Calculus, Modeling and Reasoning	Statistics, Precollege Math, COTC Math-150, COTC Math-130, COTC Math-200, AP Calculus, Modeling and Reasoning	
		CP English 9, Honors English 9, COTC ENGL-112, COTC ENGL-113, CSCC ENGL-1100, ENGL-2367	CP English 10, Honors English 10, COTC ENGL-112, COTC ENGL-113, CSCC ENGL-1100, ENGL-2367	CP English 11, Honors English 11, COTC ENGL-112, COTC ENGL-113, CSCC ENGL-1100, ENGL-2367	CP English 12, COTC ENGL-112, COTC ENGL-113, COTC SPCH-200, CSCC ENGL-1100, ENGL-2367	
		CP Physical Science, CP Biology, Chemistry, Biomedical	CP Biology, Chemistry, Principles of Biomedical Science, Human Body Systems, Medical Interventions, Forensics Science, Environmental Science	CP Biology, Chemistry, Principles of Biomedical Science, Human Body Systems, Medical Interventions, Forensics Science, Environmental Science, Honors Physics	Chemistry, Principles of Biomedical Science, Human Body Systems, Medical Interventions, Forensics Science, Environmental Science, Honors Physics, COTC Bio-160	
		CP American History, Honors American History, COTC HIST-150, COTC HIST-151	CP World History, Honors World History, COTC HIST-150, COTC HIST-151	COTC HIST-150, COTC HIST-151	Government, Civics, COTC HIST-150, COTC HIST-151	
		9th Grade Band, Choir, Apogee, Chorale	Concert, Symphonic, Choir, Apogee, Chorale	Concert, Symphonic, Choir, Apogee, Chorale	Concert, Symphonic, Choir, Apogee, Chorale	
		Elective	Elective	Elective	Elective	
		Elective	Elective	Elective	Elective	
A R T S						

Arts and Humanities Pathway

Arts and Humanities Pathway					
H U M A N I T I E S	Grade 9	Grade 10	Grade 11	Grade 12	Partners
	Algebra 1, Geometry, Algebra 2	Geometry, Algebra 2, COTC Math-150, COTC Math-130	Algebra 2, Statistics, Precollege Math, COTC Math-150, COTC Math-130, COTC Math-200, AP Calculus, Modeling & Reasoning, Advanced Placement Calculus, Modeling and Reasoning	Statistics, Precollege Math, COTC Math-150, COTC Math-130, COTC Math-200, AP Calculus, Modeling & Reasoning, AP Calculus, Modeling and Reasoning	 
	CP English 9, Honors English 9, COTC ENGL-112, COTC ENGL-113, CSCC ENGL-1100, ENGL-2367	CP English 10, Honors English 10, COTC ENGL-112, COTC ENGL-113, CSCC ENGL-1100, ENGL-2367	CP English 11, Honors English 11, COTC ENGL-112, COTC ENGL-113, CSCC ENGL-1100, ENGL-2367	CP English 12, COTC ENGL-112, COTC ENGL-113, COTC SPCH-200, CSCC ENGL-1100, ENGL-2367	
	CP Physical Science, CP Biology, Chemistry, Biomedical	CP Biology, Chemistry, Principles of Biomedical Science, Human Body Systems, Medical Interventions, Forensics Science, Environmental Science	CP Biology, Chemistry, Principles of Biomedical Science, Human Body Systems, Medical Interventions, Forensics Science, Environmental Science, Honors Physics	Chemistry, Principles of Biomedical Science, Human Body Systems, Medical Interventions, Forensics Science, Environmental Science, Honors Physics, COTC Bio-160	
	CP American History, Honors American History, COTC HIST-150, COTC HIST-151	CP World History, Honors World History, COTC HIST-150, COTC HIST-151	COTC HIST-150, COTC HIST-151	Government, Civics, COTC HIST-150, COTC HIST-151	
	Elective	Elective	Elective	Elective	
	Elective	Elective	Elective	Elective	
	Elective	Elective	Elective	Elective	
Elective	Elective	Elective	Elective		

Media Arts Pathway						
		Grade 9	Grade 10	Grade 11	Grade 12	Partners
MEDIA ARTS		Algebra 1, Geometry, Algebra 2	Geometry, Algebra 2, COTC Math-150, COTC Math-130	Algebra 2, Statistics, Precollege Math, COTC Math-150, COTC Math-130, COTC Math-200, AP Calculus, Modeling & Reasoning	Statistics, Precollege Math, COTC Math-150, COTC Math-130, COTC Math-200, AP Calculus, Modeling & Reasoning	 
		CP English 9, Honors English 9, COTC ENGL-112, COTC ENGL-113, CSCC ENGL-1100, ENGL-2367	CP English 10, Honors English 10, COTC ENGL-112, COTC ENGL-113, CSCC ENGL-1100, ENGL-2367	CP English 11, Honors English 11, COTC ENGL-112, COTC ENGL-113, CSCC ENGL-1100, ENGL-2367	CP English 12, COTC ENGL-112, COTC ENGL-113, COTC SPCH-200, CSCC ENGL-1100, ENGL-2367	
		CP Physical Science, CP Biology, Chemistry, Biomedical	CP Biology, Chemistry, Principles of Biomedical Science, Human Body Systems, Medical Interventions, Forensics Science, Environmental Science	CP Biology, Chemistry, Principles of Biomedical Science, Human Body Systems, Medical Interventions, Forensics Science, Environmental Science, Honors Physics	Chemistry, Principles of Biomedical Science, Human Body Systems, Medical Interventions, Forensics Science, Environmental Science, Honors Physics, COTC Bio-160	
		CP American History, Honors American History, COTC HIST-150, COTC HIST-151	CP World History, Honors World History, COTC HIST-150, COTC HIST-151	COTC HIST-150, COTC HIST-151	Government, Civics, COTC HIST-150, COTC HIST-151	
		Media Arts Primer, Video Production, Photography Production, Digital Image Editing, Video Broadcast, Graphic Design & Commercial Art	Media Arts Primer, Video Production, Photography Production, Digital Image Editing, Video Broadcast, Broadcast, Graphic Design & Commercial Art	Media Arts primer, Video Production, Photography Production, Digital Image Editing, Video Broadcast, Broadcast, Graphic Design & Commercial Art	Media Arts primer, Video Production, Photography Production, Digital Image Editing, Video Broadcast, Broadcast, Graphic Design & Commercial Art	
		Elective	Elective	Elective	Elective	
		Elective	Elective	Elective	Elective	

Engineering Pathway						
E N G I N E E R I N G	Grade 9	Grade 10	Grade 11	Grade 12	Partners	
	Algebra 1, Geometry, Algebra 2	Geometry, Algebra 2, COTC Math-150, COTC Math-130	Algebra 2, Statistics, Precollege Math, COTC Math-150, COTC Math-130, COTC Math-200, AP Calculus, Modeling & Reasoning	Statistics, Precollege Math, COTC Math-150, COTC Math-130, COTC Math-200, AP Calculus, Modeling & Reasoning		 
	CP English 9, Honors English 9, COTC ENGL-112, COTC ENGL-113, CSCC ENGL-1100, ENGL-2367	CP English 10, Honors English 10, COTC ENGL-112, COTC ENGL-113, CSCC ENGL-1100, ENGL-2367	CP English 11, Honors English 11, COTC ENGL-112, COTC ENGL-113, CSCC ENGL-1100, ENGL-2367	CP English 12, COTC ENGL-112, COTC ENGL-113, COTC SPCH-200, CSCC ENGL-1100, ENGL-2367		
	CP Physical Science, CP Biology, Chemistry, Biomedical	CP Biology, Chemistry, Principles of Biomedical Science, Human Body Systems, Medical Interventions, Forensics Science, Environmental Science	CP Biology, Chemistry, Principles of Biomedical Science, Human Body Systems, Medical Interventions, Forensics Science, Environmental Science, Honors Physics	Chemistry, Principles of Biomedical Science, Human Body Systems, Medical Interventions, Forensics Science, Environmental Science, Honors Physics, COTC Bio-160		
	CP American History, Honors American History, COTC HIST-150, COTC HIST-151	CP World History, Honors World History, COTC HIST-150, COTC HIST-151	COTC HIST-150, COTC HIST-151	Government, Civics, COTC HIST-150, COTC HIST-151		
	Engineering Design, Robotics, Digital Electronics	Engineering Design, Robotics, Digital Electronics	Engineering Design, Robotics, Digital Electronics, Engineering Principles	Engineering Design, Robotics, Digital Electronics, Engineering Principles		
	Elective	Elective	Elective	Elective		
	Elective	Elective	Elective	Elective		

Minimum College Entrance

To assist students in making a smooth transition from high school to college, the Department of Education and Workforce and the Ohio Board of Regents recommend a college preparatory program which includes:

- 4 years of English
- 4 years of Mathematics
- 3 years of science
- 3 years of Social Studies
- 2 years of Foreign Language
- 1 year of Fine Art

Students who pursue this curriculum will have a solid foundation for being prepared for college. Since requirements vary from university to university, students are strongly encouraged to check the latest policies regarding course requirements with each university's admission office. Universities with more selective admissions prefer/may require and give preference to students who pursue the most challenging curriculum available. Strength of curriculum, along with class rank, GPA, test scores, school and community activities, special talents, etc., are factors that are part of the admission process. In many cases, the strength of the curriculum, including senior year, may prove to be a deciding factor. Many schools ask the school counselor to rate the strength of the student's curriculum.

Requirements for Graduation

Classes of 2023, 2024, and 2025

SUBJECT	CREDITS
English	4.0
Mathematics (Including Algebra 1, Geometry, and Algebra 2)	4.0
Science (Including 1 credit of Physical and 1 credit Life Science)	3.0
Social Studies (American History, World History, and Government)	3.0
Health	0.5
Physical Education (PE Waiver available for qualifying students)	0.5
Fine Art	1.0
Electives	4.0
Career Search (Options to opt out)	0.5
Community Service	0.5
Total Credits	21

CLASS OF 2026 and Beyond

SUBJECT	CREDITS
English	4.0
Mathematics (Including Algebra 1, Geometry, and Algebra 2)	4.0
Science (Including 1 credit of Physical and 1 credit Life Science)	3.0
Social Studies (American History, World History, and Government)	3.0
Health	0.5
Physical Education (PE Waiver available for qualifying students)	0.5
Fine Art	1.0
Electives (.5 credit must be Financial Literacy)	4.0
Career Search (Options to opt out)	0.5
Community Service	0.5
Total Credits	21

Ohio's High School Graduation Requirements

Classes of 2023 and Beyond



It's Your **Future.** Get **Ready.**

Before you know it, you'll be receiving your high school diploma. Ohio is giving you new ways to show the world what you can do with it.

As a student entering ninth grade on or after **July 1, 2019**, Ohio's new high school graduation requirements give you more flexibility to choose a graduation pathway that builds on your strengths and passions – one that ensures you are ready for your next steps and excited about the future.

First, cover the basics

You must earn a minimum total of 20 credits in specified subjects and take your required tests. Then, decide how you will round out your diploma requirements.

English language arts	4 credits
Health	½ credit
Mathematics	4 credits
Physical education	½ credit
Science	3 credits
Social studies	3 credits
Electives	5 credits

Other Requirements

You also must receive instruction in economics and financial literacy and complete at least two semesters of fine arts. Your district may require more than 20 credits to graduate.

Second, show competency

Earn a passing score on Ohio's high school Algebra I and English II tests. Students who do not pass the test will be offered additional support and must retake the test at least once.

Is testing not your strength? After you have taken your tests, there are three additional ways to show competency!

Option 1.

Demonstrate Two Career-Focused Activities*

Foundational

- Proficient scores on WebXams
- A 12-point industry credential
- A pre-apprenticeship or acceptance into an approved apprenticeship program

Supporting

- Work-based learning
- Earn the required score on WorkKeys Earn the OhioMeansJobs Readiness Seal

Option 2.

Enlist in the Military

Show evidence that you have signed a contract to enter a branch of the U.S. armed services upon graduation.

Option 3.

Complete College Coursework

Earn credit for one college-level math and/or college-level English course through Ohio's free College Credit Plus program.

*At least one of the two must be a Foundational skill.

Third, show readiness

Earn two of the following diploma seals, choosing those that line up with your goals and interests. These seals give you the chance to demonstrate academic, technical and professional skills and knowledge that align to your passions, interests and planned next steps after high school.

At least one of the two must be Ohio-designed:

- OhioMeansJobs Readiness Seal (Ohio)
- Industry-Recognized Credential Seal (Ohio)
- College-Ready Seal (Ohio)
- Military Enlistment Seal (Ohio)
- Citizenship Seal (Ohio)
- Science Seal (Ohio)
- Honors Diploma Seal (Ohio)
- Seal of Biliteracy (Ohio)
- Technology Seal (Ohio)
- Community Service Seal (Local)
- Fine and Performing Arts Seal (Local)
- Student Engagement Seal (Local)

Want to learn more? Contact your school counselor or visit education.ohio.gov/graduation



Athletic Eligibility

OHSAA Eligibility

Students who would like to participate in interscholastic athletics will have to meet all of the OHSAA and JMLSD eligibility requirements. In order to be academically eligible, students must receive passing grades in a minimum of five (5) one-credit courses or the equivalent, each of which counts towards graduation and have a preceding 9-week GPA of a 1.75. Keep in mind that semester exams do not impact the nine-week grade or the nine-week GPA. In most instances this means the student must be passing five courses, NOT including any Physical Education credit courses.

Students and parents are responsible for monitoring the necessary athletic credit requirements. Students and their parents should carefully review student schedules to ensure that a minimum of five (5) one-credit courses or the equivalent are scheduled each nine-week grading period. Please contact the school counselor if you have questions.

NCAA Athletic Eligibility Requirements

Students planning to participate in Division I or Division II college athletics must meet the NCAA eligibility requirements. Athletic eligibility is determined by the NCAA and is based on core-course GPA. It is important that students and parents familiarize themselves with these requirements as early as possible in their high school careers. Please refer to the NCAA eligibility center for more information www.eligibilitycenter.org.

Please note: Flex credit and online core courses DO NOT meet NCAA eligibility requirements.

Students are encouraged to apply to the Clearinghouse online at the NCAA during their sophomore year.

Academic Recognition

Varsity Academic Letter

Students in grades 9-12 can earn a Varsity Academic Letter. This award is given yearly during the 9-11 Awards Assembly and during the Senior Awards Night. Students can qualify for a Varsity Academic Letter by earning a 4.0 GPA during the 1st, 2nd, and 3rd nine-week grading period.

Principal's Roll

To qualify for the Principal's Roll, students must earn all A's. Students may not earn a grade lower than an A- in any subject to qualify for the Principal's Roll.

Honor Roll

To qualify for the Honor Roll, students must earn all A's and B's or a combination thereof. No student is permitted into Honors with a grade below a B-.

Merit Roll

To qualify for the Merit Roll, students must earn all A's and B's and no more than 1 C. No student is permitted into Merit with a grade below a C-.

Grades 9-11 Annual Awards Assembly

In the spring, students in grades 9-11 will be recognized at the Annual Awards Assembly. The parents of any student(s) being recognized at the Annual Awards Assembly will be invited to attend the assembly.

Individual Teacher Awards

Teachers will establish award criteria and select students to be recognized at the Annual Awards Assembly and the Senior Awards Night.

Senior Awards Night

A Senior Awards Night will be held in the spring. Students will be recognized for outstanding achievements. Scholarship winners also will be announced this evening.

New Honors Diploma Requirements

High school students can gain state recognition for exceeding Ohio’s graduation requirements through an Academic Honors Diploma. High-level coursework, college and career readiness tests and real-world experiences challenge students.

Students must meet **all but one** of the following criteria. Each of these criteria go beyond the [standard requirements for a diploma for the classes of 2023 and beyond](#). Students must meet general graduation requirements and complete the requirements outlined below to qualify for honors diplomas. Students may replace one requirement of either 4, 5 or 6 with a “Student Strength Demonstration.” The [previous requirements](#) to earn an honors diploma are also available for students in the classes of 2023-2025.

ACADEMIC HONORS DIPLOMA

Requirements	State Minimum
1 Math	Fourth math must be > Algebra 2
2 Science	One additional unit Advanced Science
3 Social Studies	One additional unit Social Studies
4 World Languages	Three sequential units of one world language, or no less than 2 sequential units of two world languages studied
5 GPA	3.5 on a 4.0 scale
6 ACT/SAT	ACT: Score of 27 or higher, SAT: Score of 1280 or higher
7 Seal Requirement	Earn two additional diploma seals, not including Honors Diploma Seal
8 Experiential Learning	Field Experience, OhioMeansJobs Readiness Seal*, Portfolio or Work-Based Learning

Honor Diploma Requirements Classes 2023-2025

Any student in the class of 2023, and including students in the class of 2024 and 2025, may use the new honors diploma options, but may also use the previous requirements below to earn an honors diploma.

Students must meet **all but one** of the following criteria, unless it is a minimum graduation requirement. Students must meet general graduation requirements to qualify for honors diplomas.

Academic Honors Diploma

Requirements	State Minimum
Math	4 units
Science	4 units, including 2 units of advanced science
Social Studies	4 units

Requirements	State Minimum
World Languages	3 units of one world language, or no less than 2 units of each of two world languages studied
Fine Arts	1 unit
GPA	3.5 on a 4.0 scale
ACT/SAT	ACT: 27 or higher/SAT: 1280 or higher

National Honor Society

The National Honor Society was founded in 1921. Our Johnstown chapter was chartered in 1936. Today there are over 20,000 high school chapters throughout the United States. The objectives of National Honor Society are to create enthusiasm for scholarship, to stimulate a desire to render service, to promote worthy leadership, and to encourage the development of good character.

NHS Membership

NHS is more than just an honor roll or a grades society. The Honor Society chapter establishes rules for membership based upon a student's outstanding performance in the areas of scholarship, service, leadership, and character. These criteria for selection form the foundation upon which the organization and its activities are built. Membership at Johnstown-Monroe High School is open to sophomores, juniors, and seniors.

Scholarship:	Students who have a cumulative grade point average of a 3.800 or higher meet the scholarship requirement for membership. These students are then eligible for consideration on the basis of service, leadership, and character.
Service:	This quality is defined through the voluntary contributions made by a student to the school or community, done without compensation and with a positive, courteous, and enthusiastic spirit.
Leadership:	Student leaders are those who are resourceful, good problem solvers, promotes of school activities, idea-contributors, dependable, and persons who exemplify positive attitudes about life. Leadership experiences can be drawn from school or community activities while working with or for others.
Character:	The student of good character upholds principles of morality and ethics, is cooperative, demonstrates high standards of honesty and reliability, shows courtesy, concern, and respect for others, and generally maintains a good and clean lifestyle.

Specific standards for these criteria may vary from one school to the next. Such variations are acceptable as long as they do not fall below the national standards set by the National Council of the NHS. All chapters are required to document the criteria and procedures used in their local selection processes. The Honor Society adviser maintains copies of the local procedures and has them available upon request. Any student in grades 10, 11, & 12 in a school with both an official charter of the National Honor Society and an affiliation with the national office is eligible for consideration for membership in NHS. Once a school has established a chapter, all membership selection for individual students is handled through the local school chapter.

The selection process demands much time and effort from the students, staff, and the NHS faculty council. Because the tenets of the national organization are very specific, the standards for the selection process must remain very high. As with any highly selective process (e.g., job searches, scholarships, admission to very competitive colleges), there is no guarantee that after all the information has been reviewed that a certain student will meet the high standards for becoming a member. Fair, nondiscriminatory selection criterion as outlined in the National Honor Society Handbook is the standard by which selections are made.

Course Descriptions

English Language Arts

Language, literature, and reading are essential to our society. Our goal is to help students develop reading and writing as essential skills and gain an appreciation of literature. Four credits of English are required to meet graduation requirements.

0012 & 0013 College-Prep English 9

Full Year Course

1 Credit

Content: This course covers in-depth reading, speech, grammar, writing, and vocabulary. Emphasis is placed upon the reading and discussion of a variety of literature genres, (novels, short stories, plays and poems). Writing is related to personal response, analysis of class readings, literature and research. Co-taught CP English 9 classes are available for students recommended by their 8th grade language arts teachers.

0015 Honors English 9

Full Year Course

1 Credit

Prerequisite: Recommendation of 8th grade language arts teacher.

Content: Like CP English 9, this course covers in-depth reading, speech, grammar, writing, and vocabulary. Emphasis is placed upon the reading and discussion of a variety of literature genres, (novels, short stories, plays and poems). Writing is related to personal response, analysis of class readings, literature and research. Honors students should be self-motivated, willing to engage actively in class discussions, and able to handle increased pace and rigor. This course has a weighted grade.

0022 & 0023 College-Prep English 10

Full Year Course

1 Credit

Prerequisite: Must successfully pass CP English 9

Content: In this course, students will read a variety of texts, fiction and nonfiction, prose and poetry, and practice skills of analysis and evaluation. Students will review and expand their knowledge of literary devices. Students will write for various purposes – narration, explanation, and persuasion – and students will work on creating strong organization, development, and interest in their writing. Students will continue to practice the writing process and the research process and use MLA formatting to create original writings. Students will also have the opportunity to practice their speaking and listening skills.

0025 Honors English 10

Full Year Course

1 Credit

Prerequisite: Recommendation of 9th grade language arts teacher

Content: This course emphasizes literary analysis and other forms of composition, formal research skills, speech skills, and vocabulary development. Literature (novels, short stories, plays, and poetry) provides the basis for critical thinking and long-term projects. Students should be self-motivated, willing to engage in class discussions, and work at an increased pace and rigor. This course has a weighted grade.

0032 & 0044 College-Prep English 11

Full Year Course

1 Credit

Prerequisite: Must successfully pass CP or Honors English 10

Content: This course emphasizes close reading of American fiction and nonfiction texts, organization and development in writing, and polishing grammar and language skills. Students complete various writing and speaking projects.

0035 Honors English 11

Full Year Course

1 Credit

Prerequisite: Recommendation of 10th grade language arts teacher

Content: This course emphasizes literary analysis and other forms of composition, formal research skills, speech skills, and vocabulary development. Literature (novels, short stories, plays, and poetry) provides the basis for critical thinking and long-term projects. Students should be self-motivated, willing to engage in class discussions, and prepared for a quick, rigorous pace. Summer reading is required. This course has a weighted grade.

0033 & 0043 College-Prep English 12

Full Year Course

1 Credit

Prerequisite: Must successfully pass CP or Honors English 11.

Content: This course teaches advanced composition and grammar skills, research skills, and speech skills, and uses literature (novels, short stories, plays, and poetry) as a basis for writing. Co-taught CP English 12 classes are available for those students recommended by 11th grade English teachers.

0045 Honors English 12

Full Year Course

1 Credit

Prerequisite: Recommendation of 11th grade language arts teacher.

Content: This course will teach college-level writing and verbal skills, critical thinking, formal research papers, vocabulary development, and a college testing format.

0092A Yearbook (1st Semester)

Semester Course

½ Credit

Content: Yearbook is an elective course that gives students marketable experience in print media publishing. This class is specifically designed to record the history of the school, its students, and the events that occur throughout the year. It provides an opportunity for students to apply photojournalistic techniques as they work together to tell a story and/or communicate a message. This course demands a higher amount of responsibility and degree of maturity on behalf of the student staff member. Deadlines are vital to this class. Teamwork is important to meeting those deadlines.

0092B Yearbook (2nd Semester)

Semester Course

½ Credit

Content: In this course, students will continue to improve upon skills learned in the first semester of Yearbook. Students will be expected to complete the yearbook prior to the end of the school year.

1088 Science Fiction and Fantasy Writing

Semester Course

½ Credit

Content: This creative writing course dives into the development of plot, setting, and characters in Science Fiction and Fantasy. Students will be graded on their own assessments of their writing, revision processes, and self-assigned goals. Presentation and discussion of ideas is a large part of this class, and students will regularly prepare topics to be presented

to the class. If you've ever thought about creative writing or have been writing for years now, this class caters to novices and advanced writers.

7503A Graduate Foundations

Semester Course

½ Credit

Content: Students in this course will explore and research various career fields and the qualifications needed for careers that require apprenticeships, college degrees and/or other experiences. Students in this course will also focus on the soft skills needed to be successful in their future careers.

Mathematics

In order to graduate, students are required to successfully earn four credits in mathematics that must include Algebra II. The math program encourages reasoning, communication and problem solving. The curriculum will emphasize the connections between the various mathematical courses so that students can transition from solving problems based on algebraic or geometric relationships to using abstract deductive and inductive reasoning to explore mathematics in preparation for university work and beyond. Students are required to take Algebra 2 (or equivalent) before, or during, their junior year.

2115 & 2114 Algebra 1

Full Year Course

1 Credit

Prerequisite: Course for Grade 9

Content: Algebra 1 is intended to introduce students to the field of advanced mathematics, help them to determine their interest and abilities, and develop their potential in mathematical study. Emphasis in the course is placed on mathematical theory and reasoning. A scientific calculator is required for this course. A scientific calculator is required for this course (Section 2115 only). Students must have their own graphing calculator for this course (Section 2114 only).

2132 & 2131 Algebra 2

Full Year Course

1 Credit

Prerequisite: Successful completion of Algebra 1

Content: This course contains both content that reviews or extends concepts/skills learned in Algebra 1 and new and more abstract concepts in algebra. It covers such topics as linear functions, systems of linear equations and inequalities, polynomials and rational algebraic expressions, exponents and logarithms, complex numbers, vectors and trigonometry. Students must have their own scientific calculator for this course (Section 2132 only). Students must have their own graphing calculator for this course (Section 2131 only).

2223 & 2222 Geometry

Full Year Course

1 Credit

Prerequisite: Successful completion of Algebra 1

Content: This course develops the concepts of points, lines, planes, angles, parallel lines, perpendicular lines, polygons, congruent triangles, similar triangles, triangle trigonometry, circles, areas, volumes, and geometric proofs, by studying the relationships of these concepts, students will develop logical thinking skills necessary to solve problems. This course provides college bound students with necessary concepts and mathematical skills. A scientific calculator is required for this course. Students must have their own graphing calculator for this course.

2134 Modeling and Reasoning

Full Year Course

1 Credit

Prerequisite: Successful completion of Algebra I and Geometry

The Mathematical Modeling and Reasoning (MMR) course is an advanced quantitative reasoning course. Quantitative Reasoning (QR) is the application of foundational mathematics skills, such as algebra, to the analysis and interpretation of quantitative information (numbers and units) in real-world contexts to make decisions relevant to daily life. Critical thinking is its primary objective and outcome. It emphasizes interpretation, representation, calculation, analysis/synthesis, assumptions and communication. This course can be used as an Algebra II equivalent course.

2448 Pre-Calculus

Full Year Course

1 Credit

Prerequisite: At least a C in Algebra 1, Geometry, and Algebra 2 and recommendation from Algebra 2 instructor.

Content: This course is for the college-bound student. It primarily expands the student's proficiency in analysis, trigonometry concepts, algebraic concepts, problem-solving, real and complex number systems and elementary calculus. It is intended to prepare the student for college mathematics beyond algebra. Students must have their own graphing calculators.

2442 Calculus

Full Year Course

1 Credit

Prerequisite: At least a C in Trigonometry with Precalculus course and permission of course instructor.

Content: The purpose of this course is to provide students with an advanced mathematics course. The course accomplishes its goals by furthering the students' problem-solving ability through the study of calculus and its related applications. Students must have their own graphing calculator.

2400 Advanced Placement Calculus AB - Full Year Course

Prerequisite: Successful Completion of Algebra I, Geometry, Algebra II

Content: Advanced Placement Calculus AB credit; full year; weighted course; NCAA approved

The course will further the students' problem-solving ability through the study of calculus and its related applications. The topics studied in Advanced Placement Calculus AB are those traditionally offered in the first year of calculus in college, and designed for students who wish to obtain a semester of advanced placement in college. The topics include limits, continuity, derivatives, and integrals of algebraic and transcendental functions and their applications, and elementary differential equations. Graphing calculator required. Students enrolled in this course will be eligible to enroll in AP Calculus BC during the 2025-26 school year.

2443 Statistics

Full Year Course

1 Credit

Prerequisite: Successful completion of Algebra II and teacher recommendation.

Content: This course introduces the major concepts of probability, interpretation of data and statistical problem solving. Students will be introduced to concepts of probability, interpretation of data and statistical problem solving. This course enables students to analyze, interpret and display data collected through observational studies, surveys and experiments. It provides opportunities for the student to model statistical methods, derive probabilities and to make inferences. It presents applications of statistics in real-life situations and shows how misleading statistics could be presented more accurately. The four main components of the course are: exploring data, data collection, probability and inference. Students must have their own graphing calculator required for this course.

Science

The Science Department offers a variety of challenging courses in many scientific disciplines to meet the needs and interests of students. The courses are designed to acquaint students with the means of inquiry used by scientists, to acquire knowledge that comprises the essential structure of each of the sciences, and to develop a respect for and an enduring curiosity about the natural world and the mysteries of the universe. In order to meet graduation requirements, all students must successfully complete three credits of science. It is recommended that college-bound students successfully complete four credits.

3012 & 3013 Physical Science

Full Year Course

1 Credit

Prerequisite: NA

Co-requisite: Must be enrolled in Algebra I or Geometry

Content: Intro course taught with a mixture of lecture and lab experiences. The basic principles of Physical Science (such as Physics, Chemistry, Earth and Space Sciences) will be covered. This class includes a great deal of math and other projects.

3015 Honors Physical Science

Full Year Course

1 credit

Prerequisite: At least a B in Algebra 1 in 8th grade; at least a B in 8th grade science

Content: Intro course taught with a mixture of lecture and lab experiences. The basic principles of Physical Science (such as Physics, Chemistry, Earth and Space Sciences) will be covered. Students should expect more rigorous application of math and lab work.

3122, 3131, & 3123 CP Biology

Full Year Course

1 Credit

Prerequisite: This course is intended for students who plan on attending a four-year college or university after graduating from high school and permission of course instructor.

Content: The course introduces cellular biology, genetics, biochemistry, biological change and classification of the kingdoms of life. Hands-on labs include the dissection of many different organisms.

3024 & 3023 CP Chemistry

Full Year Course

1 Credit

Prerequisite: Successfully passed Algebra 1, Geometry, Physical Science & Biology I

Co-requisite: Must be enrolled in Algebra II

Content: The purpose of this course is to give students, especially college-bound, a background in chemistry basics. Students will become familiar with using a periodic table and the fundamental concepts of matter and its changes.

3300 Environmental Science A

3301 Environmental Science B

Semester Course

½ Credit

Prerequisite: Physical Science and Biology 1

Content: Expose students to ecological principles using scientific, social, political, and economic components. Describes the natural world and how it affects humans and how we affect the natural world. The course will illustrate the integration of these components with the science that describes the natural world. This course can be taken by students who do not wish to take CP Chemistry.

3035 Honors Physics

Full Year Course

1 Credit

Prerequisite: Algebra 2 with a grade of B or better and Chemistry with B or better and permission of instructor.

Co-requisite: Trigonometry, Statistics or Higher-Level Math Course

Content: The purpose of this course is to study the interrelationship of matter and energy. Students will concentrate on applications of physics concepts to the real world. This course is weighted.

3501 The Human Body Anatomy and Physiology

Full Year Course

1 Credit

Prerequisite: Offered to students in grades 11 and 12 who have successfully completed Physical Science and Biology.

Content: This class is offered to upperclassmen who would like to learn more about how the human body works. The course will provide an in-depth look into the different body systems with an emphasis on developing an understanding of the relationships between anatomical structures and their functions. Course requirements: class discussions, lab activities, daily homework, classroom assignments, projects, dissection of a fetal pig, computer account.

3502 Forensic Science

Semester Course

1 Credit

Content: Offered to students in grades 11 and 12 who have successfully completed Physical Science and Biology.

Students will participate in a hands-on science course which will integrate science, mathematics, and writing skills by using case-studies and laboratory activities. Topics covered will include observation skills, collecting evidence such as hair, fibers, fingerprints and blood, DNA fingerprinting, handwriting analysis, and time and cause of death.

Social Studies

Social Studies courses draw upon the wealth of information and insight to be found in History, Economics, Geography, and Political Science. The courses are designed to provide all students with an understanding and appreciation of Modern World History, United States History, Government, and Economics. Students will also be taught the basic concepts and skills used in the social science disciplines. In order to meet graduation requirements, all students must successfully complete three credits of Social Studies.

4009 Honors American History

Full Year Course

One Credit

Prerequisite: Recommendation of 8th Grade Social Studies Teacher

Content: This course examines the history of the United States of America from 1877 to the present. The federal republic has withstood challenges to its national security and expanded the rights and roles of its citizens. The episodes of its past have shaped the nature of the country today and prepared it to attend to the challenges of tomorrow. Understanding how these events came to pass and their meaning for today's citizens is the purpose of this course. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions. As an honors class, this class will use additional resources not available to the CP classes, and additional work will be required.

4010 & 4011 American History

Full Year Course

One Credit

Prerequisite: Recommendation of 8th Grade Social Studies Teacher

Content: This course examines the history of the United States of America from 1877 to the present. The federal republic has withstood challenges to its national security and expanded the rights and roles of its citizens. The episodes of its past have shaped the nature of the country today and prepared it to attend to the challenges of tomorrow. Understanding how these events came to pass and their meaning for today's citizens is the purpose of this course. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions.

4216 & 4217 World History

Full Year Course

1 Credit

Prerequisite: Sophomore Status

Content: This course examines world events from around 1600 to the present, focusing on the recognition and expansion of human rights throughout the world. It explores the impact of the democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the ideas that led to independence movements and the effects of global interdependence. The emphasis will be on the development of historical and critical thinking, with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions.

4218 Honors World History

Full Year Course

1 Credit

Prerequisite: At least sophomore status and A- in American History and course instructor permission.

Content: This course examines world events from around 1600 to the present, focusing on the recognition and expansion of human rights throughout the world. It explores the impact of the democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the ideas that led to independence movements and the effects of global interdependence. The emphasis will be on the development of historical and critical thinking, with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions. As an honors class, this class will use additional resources not available to the CP classes, and additional work will be required, as well.

4341 American Government

Semester Course

1/2 Credit

Required for Graduation

Content: A comprehensive study of the American form of government compared to other governments throughout the world with emphasis placed on current events and problems. The course includes the study of political parties, elections, Congress, the presidency, court systems, and criminal law, current problems in the field of government, national and state constitution, and federal laws.

4341b Civics

Semester Course

1/2 Credit

Required for Graduation

Content: A comprehensive study of the American form of government compared to other governments throughout the world with emphasis placed on current events and problems. The course includes the study of political parties, elections,

Congress, the presidency, court systems, and criminal law, current problems in the field of government, national and state constitution, and federal laws.

7540 Financial Literacy

Semester Course

1/2 Credit

Content: This course examines the ability of individuals to use knowledge and skills to manage limited financial resources effectively for a lifetime of financial security. Topics include banking, budgeting, purchasing homes and vehicles, and consumer debt, etc.

New Course for the 2024-25 School Year

4300 Economics

Semester Course

1/2 Credit

Content: This course is a study designed to give the student an understanding of basic economic principles, how to apply these principles, and how these principles relate to the American free enterprise system. Certain economic principles such as how wants lead to production, supply and demand, and the factors of production are covered. In addition, household consumption patterns, personal finances, investments, stock market, and insurance coverage are discussed.

World Languages

In order to succeed in the global economy, students will be required to have strong communication skills. Learning other languages will help students communicate across many cultures and gain the knowledge to effectively engage within our own community and in the global marketplace. The World Language program will ensure students can communicate effectively in a language other than English and develop a respect for other cultures. College-bound students need to check with specific colleges to see how many units of Foreign Language are required for admission.

1111 Spanish 1

Full Year Course

1 Credit

Prerequisite: Recommended students have a C or better in English

Content: Spanish 1 is a beginning course for students with no background in the language. The initial weeks rely heavily on repetition, gradually moving toward light reading. Pronunciation is stressed from the beginning. Basic grammar concepts are introduced early, and spelling and vocabulary are emphasized. The course focuses on the basic language skills of listening, speaking, reading, and writing. A study of several Spanish-speaking countries is also emphasized.

1121 Spanish 2

Full Year Course

1 Credit

Prerequisite: Recommended students have a C or better in Spanish 1

Content: Spanish 2 is a continuation of Spanish 1 stressing building students' knowledge of vocabulary and basic verb tenses. Communicative oral and written activities are used to enhance learning and give students the opportunity to apply this knowledge. This course also includes cultural information that encourages students to appreciate, compare and contrast differences between the culture of Spanish-speaking countries and their own.

1131 Spanish 3

Full Year Course

1 Credit

Prerequisite: Recommended students have a B- or better in Spanish 2

Content: Spanish 3 stresses communication with a focus on vocabulary building and spontaneous dialogue. Students participate in several simulations, and role-playing activities. Short stories provide material for developing reading skills. Students will continue to develop their grammar skills by learning several new verb tenses. A study of several Spanish-speaking countries is also emphasized.

1141 Spanish 4

Full Year Course

1 Credit

Prerequisite: Recommended students have a B- or better in Spanish 3

Content: Spanish 4 stresses language growth through reading and conversational Spanish and is a continuation of Spanish 3. Students improve their oral and written skills as they consider readings, discuss controversial issues, and contemporary concerns. A research paper and oral presentation is required. Students also expand their cultural knowledge throughout the course in readings, movies, music and presentations. Students continue to develop their grammar skills. This course requires a high level of participation.

Family and Consumer Sciences

7527 Principles of Food

Semester Course

½ Credit

Content: In this course, students will gain knowledge in food selection criteria and apply preparation methods to promote a healthy lifestyle. Students will apply cooking methods, ingredient selection and nutritional information in the context of selected food dishes. Throughout the course, basic food safety and sanitation techniques will be emphasized.

7526 Global Foods

Semester Course

½ Credit

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

Food Science

Semester Course

½ Credit

Content: In this course, students will apply basic culinary practices and understand how flavor, texture and appearance are affected during food preparation. Students will evaluate chemical reactions as they occur in cooking methods and assess how to control high-risk food safety situations. Food safety and sanitation techniques will align to industry-recognized certifications.

7500/7529 Culinary Foods

Semester Course

½ Credit

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

7502/7400 Child Development

Semester Course

½ Credit

Content: In this course, students will study the principles of child growth, development and behavior. An emphasis will be placed on the cognitive development of a child and sensory and motor skills. Additional topics will include childhood diseases, immunizations, and theories of development, learning styles and evaluating childcare services.

Visual and Performing Arts

The Fine Arts program provides students with opportunities to experience both visual and performing art courses offered on an elective basis. Students' unique and creative thinking is fostered to develop knowledgeable, self-disciplined, inquiring, and motivated individuals. One fine art credit is required for graduation.

8014 Sculpture

Semester Course

1/2 Credit

Content: Students will utilize the reductive method to explore the possibilities of wood, plaster and stone.

8213 Water Painting

Semester Course

1/2 Credit

Content: Students will utilize different techniques to create paintings with water.

8208 Abstract Art

Semester Course

1/2 Credit

Content: Through the use of wet, dry and 3D mediums, students will explore the meaning and creation of abstract art.

8011 Art

Semester Course

1/2 Credit

Content: An introductory studio course emphasizing basic techniques in drawing, painting, sculpturing, and art appreciation/history.

8217 Ceramics

Semester Course

1/2 Credit

Content: Ceramics is a project-based class where students will learn by creating, firing, and glazing ceramic pieces. Hand-building and throwing techniques will be applied to exploration of form through the principles of design. Students will experience firsthand the terms, steps and processes involved in ceramics.

8013 Painting 1

Semester Course

1/2 Credit

Content: Through the application of a variety of painting techniques, students will learn how to represent the natural world. Projects will cover figure paintings, portraits, and landscapes.

Painting 2

Semester Course

1/2 Credit

Content: Students must have successfully completed Painting 1. Through the application of variety painting techniques, students will learn how to represent the natural world. Projects will cover figure paintings, portraits, and landscapes.

8015 Graphic Design and Commercial Art I

Semester Course

1/2 Credit

Prerequisite: Intro to Art

Content: Graphic Design and Commercial Art focuses on the real-world application of art and design. Thanks to a generous grant from Meta New Albany Data Center, you will learn hands-on how to operate technology such as laser engravers, vinyl printers, 3D printers, etc. In this class, you will be designing and producing products for the school district including banners, posters promoting school events, tee shirts, and window coverings. This class provides you with an opportunity to make an enduring impression on the culture of Johnstown.

8016 Graphic Design and Commercial Art II

Semester Course

1/2 Credit

Prerequisite: Intro to Art and Graphic Design and Commercial Art 1

Content: Graphic Design and Commercial Art 2 focuses on the real-world application of art and design at a higher level and will include creating and designing projects and materials for the community and or local businesses, including the other schools in the district.

8017 Graphic Design and Commercial Art III

Semester Course

1/2 Credit

Prerequisite: Intro to Art and Graphic Design and Commercial Art 1 and 2

Content: Graphic Design and Commercial Art 3 will continue to focus on the real-world application of art and design at a higher level and will include creating and designing projects and materials for the community and or local businesses, including the other schools in the district.

8520 Choir

1/2 Credit per Semester

Prerequisite: None.

Content: This is the beginning choir for Johnstown High School. It is composed of students who enjoy singing that want to gain a stronger understanding of proper vocal technique and musicianship. This class will study a wide variety of music from many different time periods and cultures. The difficulty of music performed will be at a basic level. All Choir members are expected to demonstrate a commitment to excellence in all activities associated with the choral music program. Attendance is required at all contests, concerts and other performances. Students are required to purchase a choir uniform which consists of black pants and black shoes. Participation in the Ohio Music Education Association Solo and Ensemble Contest is recommended, but not required. Students are encouraged to take this class all year long.

8521 Chorale

Full Year Course

1 Credit

Prerequisite: Audition and selection by Choral Director

Content: The Chorale is the most selective ensemble in the choral program. The students in this ensemble must demonstrate a dedication and commitment to the study and performance of a wide variety of music of the highest caliber. This group will function as a show choir in the fall and spring seasons and as a chamber ensemble during the winter contest season. Students need to be poised and demonstrate a quality stage presence. Choreography is an important element. Students are required to participate in the Ohio Music Education Association's solo and ensemble contest. Significant time outside of the school day is required for rehearsals and performances. Students must be in good academic standing in all classes to remain a member of this ensemble. This class is a yearlong class. Students are required to purchase a chorale uniform.

8525 Apogee

Full Year Course

1 Credit

Prerequisite: Audition and selection by Choral Director

Content: Apogee is the selective women's ensemble in the choral program. The students in this ensemble must demonstrate a dedication and commitment to the study and performance of a wide variety of music of the highest caliber. This group will function as a show choir in the fall and spring seasons and as a chamber ensemble during the winter contest season. Students need to be poised and demonstrate a quality stage presence. Choreography is an important element. Students are required to participate in the Ohio Music Education Association's Solo and Ensemble Contest. Significant time outside of the school day is required for rehearsals and performances. Students must be in good academic standing in all classes to remain a member of this ensemble. This class is a yearlong class. Students are required to purchase an Apogee uniform.

8714 Freshmen/Marching Band (9th Grade)

Full Year Course

1 Credit

Pay to Participate Fee Applies

Prerequisite: Previous participation in middle school band or permission of director

Content: This course builds on the middle school band experience in rhythm, counting, improving tone quality, expression, various articulations, and increasing musical vocabulary. Attendance at out of class rehearsals and performances, marching or concert, is viewed as the extension of the classroom and is required. Band is a full year course, and includes the participation of marching season, concert season, and pep band. Marching band component: from June to November, this group will be in marching band mode. Attendance at football games, parades, or marching festivals is a requirement for this course (exceptions are to be determined by the director). Marching rehearsals begin in the summer, including a week at an off-site band camp.

8711 Concert/Marching Band

Full Year Course

1 Credit

Pay to Participate Fee Applies

Prerequisite: Previous membership or permission of director

Content: This course builds on previous years' experience in rhythm, counting, improving tone quality, expression, various articulations, and increasing musical vocabulary. Attendance at out of class rehearsals and performances, marching or concert, is viewed as the extension of the classroom and is required. Band is a full year course, and includes the participation of marching season, concert season, and pep band. Marching band component: from June to November, this group will be in marching band mode. Attendance at football games, parades, or marching festivals is a requirement for this course (exceptions are to be determined by the director). Marching rehearsals begin in the summer, including a week at an off-site band camp.

8712 Symphonic/Marching Band

Full Year Course

1 Credit

Pay to Participate Fee Applies

Prerequisite: Audition or permission of director

Content: This course builds on previous years' experience in rhythm, counting, improving tone quality, expression, various articulations, and increasing musical vocabulary. Attendance at out of class rehearsals and performances, marching or concert, is viewed as the extension of the classroom and is required. Band is a full year course, and includes the participation of marching season, concert season, and pep band. Marching band component: from June to November, this group will be in marching band mode. Attendance at football games, parades, or marching festivals is a requirement for this course (exceptions are to be determined by the director). Marching rehearsals begin in the summer, including a week at an off-site band camp.

Health and Physical Education

9300 Health

Semester Course

½ Credit

Content: Health is designed to answer the needs of young people for accurate information about the functioning of their bodies and about the help provided by modern science and medicine. The focus is placed on physical, social, and emotional well-being. Development of decision-making skills will be a part of this course. One section of this course must be completed to meet the graduation requirements.

9320 OHSAA Officiating Course

Semester Course

1/2 Credit

Content: This course covers the basics of officiating and will lead to at least one officiating license.

9313 Strength and Conditioning 1

Semester Course

¼ Credit

Content: The content should include, but not limited to the following: safety practices, terminology pertaining to the musculoskeletal system, performing and knowing the difference in muscular strength and endurance exercises, correct techniques in performing basic weight training exercises, correct techniques in performing basic weight training exercise, muscular strength and endurance assessments, weight training activities for fitness, nutrition, consumer issues and benefits of participation.

9314 Strength and Conditioning 2

Semester Course

¼ Credit

Content: The purpose of this course is to enable students to develop an intermediate knowledge in weight training, to improve techniques in weight training, to further improve muscular strength/endurance and to further improve self-image.

9315 Fitness Training

Semester Course

1/4 Credit

Content: This Physical Education course offers a comprehensive introduction to fitness training and investigates the basics: from muscle response to the science of sports. The student also learns the basic training principles and methods of physical fitness.

9316 Lifetime Activities

Semester Course

1/4 Credit

Content: It is designed to offer a level of proficiency and more instruction in a variety of individual and team activities. Improved fitness is a goal for this course. The curriculum provides different activities for the students to develop the ability to apply basic skills, rules and strategies.

Media Arts

8100 Media Arts Primer

Full Year Course

1 Credit

Content: In this first course of the Media Arts pathway students will learn the basics of how to convey messages through journalism, commercial advertising, and marketing. Students review the accuracy and impact of words and visuals used in news, advertisements and commercials. Students learn essential terminology and basic tools for delivering messages. They understand the content length, deadlines and responsibilities of various delivery channels.

8101 Video Production

Semester Course

½ Credit

Content: This course focuses on video broadcast for the journalism industry. Skills attained include interviewing, image capture, color manipulation, audio and video blend, lighting and editing. Students critique news broadcasts and research content. They plan and shoot video for live and recorded use in a specific time slot while adhering to laws related to defamation, libel, copyright, and privacy.

8102 Photography Production

Semester Course

½ Credit

Content: Students advance their digital photographic knowledge and skill using camera raw files with a focus on commercial use and knowledge of production software. Emphasis is on creative expression and client communications to increase marketability of products. Topics include white balance, saturation, contrast, and color correcting. Students apply copyright and fair use guidelines.

8103 Digital Image Editing

Semester Course

½ Credit

Content: This course focuses on manipulating images for final output through print and Web-based production. Students obtain a brief perspective on analog image editing and delve into the world of editing digital photos, illustrations and another artwork. They learn to adjust resolution and exposure, modify color, compress data and format and manage files. Students will use problem-solving strategies and work collaboratively to complete the creative process with artists, printers and Web developers.

8104 Video Broadcast

Semester Course

½ Credit

Content: This course focuses on video broadcast for the journalism industry. Skills attained include interviewing, image capture, color manipulation, audio and video blend, lighting and editing. Students critique news broadcasts and research content. They plan and shoot video for live and recorded use in a specific time slot while adhering to laws related to defamation, libel, copyright and privacy.

Project Lead the Way

Project Lead the Way provides transformative learning experiences for students. These courses create an engaging, hands-on classroom environment and empower students to develop in-demand knowledge and skills students need to thrive.

3022 Principles of Biomedical Science

Full Year

1 credit

Content: In this course, students explore concepts of biology and medicine as they take on roles of different medical professionals to solve real-world problems. Over the course of the year, students are challenged in various scenarios including investigating a crime scene to solve a mystery, diagnosing and proposing treatment to patients in a family medical practice, tracking down and containing a medical outbreak at a local hospital, stabilizing a patient during an emergency, and collaborating with others to design solutions to local and global medical problems.

3402 Human Body Systems

Full Year

1 credit

Content: Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis in the body. Exploring science in action, students build organs and tissues on a skeletal Manikin®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

3404 Medical Interventions

Full Year

1 credit

Content: Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection, screen and evaluate the code in human DNA, evaluate cancer treatment options, and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

Agricultural Education

Animal Science

Must take AFNR prior to taking this course (suggested as a second Ag course)

Full Year

1.25 Credit

Content: Students will identify and apply responsible animal science principles and routine husbandry practices to companion animals. Topics will include principles and practices of nutrient utilization, breeding programs and management of facility/housing design, meal plans and general care practices. Students will apply knowledge of companion animal care to enhance animal growth, enrichment, training, and education engagement programs. Throughout the course, students will follow practices for care and legal compliance in relation to classification of animals. FFA in an intra-curricular organization. Participation is required. If you have questions, please see the instructor.

Science & Technology of Food

Must take AFNR prior to taking this course (suggested 3rd course)

Full Year

1.25 Credit

Content: 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. FFA in an intra-curricular organization. Participation is required. If you have questions, please see the instructor.

Business Management for Agricultural and Environmental Systems

Must take AFNR prior to taking this course (Suggested 4th course)

Full Year

1.25 Credits

Content: 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. FFA is an intra-curricular organization. Participation is required. If you have questions, please see the instructor.

Multi-Skilled Technician Program C-TEC/Johnstown Course Descriptions: 2024-25

Introduction to Engineering Design (grades 9-12)

Credit: 0.5

Semester Course

Credential: Auto CAD Description: Students will learn the application of the engineering design process. Topics include work-processes, optimization methods, design optimization and risk management tools. Students will use 2D and 3D modeling software to help them design solutions to proposed problems, document their work, and communicate solutions. Additionally, students will interpret industry prints and create working drawings from functional models. Emphasis is given to experimental problem solving in real systems.

Robotics (grades 9-12)

Credit: 1.0/

Full Year Course

Credential: SACA Industry 4.0 Robot System Operations

Description: Students will apply the knowledge and skills necessary to program and operate robots, using the teach pendant as the main interface point. Students will learn robotic operations and system configurations. Students will code, compile and debug programs using the robotic programming language.

Digital Electronics (grades 9-12)

Credit: .50

Semester Course

Credential: TBD

Description: Students are introduced to the process of combinational and sequential logic design. The system uses a precise sequence of discrete voltages, representing numbers, non-numeric symbols or commands for input, processing, transmission, storage or display. Engineering standards and methods for technical documentation will also be learned.

Engineering Principles (grades 9-12)

Credit: .50

Semester Course

Credential: Lean Six Sigma

Description: This course will introduce students to fundamental engineering concepts and scientific principles associated with engineering design applications. Topics include mechanisms, energy statics, materials and kinematics. Additionally, students will learn material properties and electrical, control and fluid power systems. Students will learn to apply problem solving, research and design skills to create solutions to engineering challenges.

Multi-Skilled Technician I (grades 11-12)

Credit: 2.0

Full Year Course

Credential: SACA, Industry 4.0 Basic Operations and Advanced Operations

Content: Students will learn the production processes applied across manufacturing operations. Students will be able to demonstrate a broad array of technical skills with an emphasis given to quality practices, measurement, maintenance and safety. They will also examine the basic drives of such mechanisms as electric motors and hydraulic & pneumatic actuators. A major focus will be on AC/DC Electricity, Electronic Sensors and Electronic Controls and Hydraulics.

