DELPHOS JEFFERSON HIGH SCHOOL

CURRICULUM GUIDE

2025-2026

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CREDIT REQUIREMENTS

Subject	Graduation Requirement
English	4 units
Health	½ units
Math	4 units [1]
Physical Education or Waiver	½ units [2]
Science	3 units [3]
Social Studies	3 units [4]
Fine Arts	1 unit [5]
Electives	5 units [6]
TOTAL HIGH SCHOOL CREDITS	**21 units**

STUDENTS ARE PERMITTED TO SCHEDULE 1 STUDY HALL PER YEAR AND REQUIRED TO BE ENROLLED IN 6 CLASSES/ELECTIVES PER YEAR.

[1] Math units must include 1 unit of Algebra II or the equivalent of Algebra II

[2] The board of education of Delphos City Schools has adopted a policy to excuse from the high school physical education requirement each student who, during high school, has participated in interscholastic athletics, marching band, show choir or cheerleading for at least two full seasons. Therefore, the board does not require this student to complete any physical education course as a condition to graduate. These students will not earn credit for PE but will be exempted from the PE requirement. Any student not participating in interscholastic athletics, marching band, show choir, or cheerleading for at least two full seasons will be required to take a ½ credit independent study PE course.

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

[4] Social Studies units must include: American History (1 unit) American Government (1 unit) World History (1 unit) in their required 3 units. We have added ½ unit of each economics and financial literacy to meet changing graduation requirements. (economics will fall under social studies, financial literacy will fall under elective)

[5] Students must complete at least two semesters of fine arts taken any time in grades 7-12. Fine arts is not a requirement for students following a career-technical pathway. The fine art requirement can be earned through 7th and 8th grade art or high school Art, Yearbook, Digital Media, Choir, or Band. Fine Art requirement is waived for students taking at least one course in Agriculture.

[6] Any combination of foreign language, fine arts, business, career-technical education, technology, agricultural education, or English language arts, mathematics, science or social studies not otherwise require, for a total of 5 units.

EARNING AN OHIO HIGH SCHOOL DIPLOMA

For the 2023 Graduating Class and Beyond:

- http://education.ohio.gov/getattachment/Topics/Ohio-s-Graduation-Requirements/Sections/Classes-of-2023-and-Beyond-Graduation-Requirements/GradReq2023.pdf.aspx?lang=en-US
- Fine and Performing Arts Seal
- Student Engagement Seal
- Community Service Seal

ATHLETIC ELIGIBILITY

To participate in extracurricular activities, a student must have at least 1.25 grade point average and earn a passing grade in 5 academic classes. Eligibility is determined at the end of each grading period (Quarter grade cards). Any unexcused absence results in non-participation for the day.

LOCAL GRADUATION AWARDS

The Award of Distinction (Beginning with the Class of 2013; Must meet all four criteria)

1) Top 10% of graduating class based upon Cumulative GPA
2) Cumulative GPA of 3.75 or higher after 7 semesters
3) Must have completed at least 2 AP or CCP classes (Vantage recommended)
4) No reports of cheating/plagiarism/suspensions/expulsions

The Award of Honor (Must meet all three criteria.)

1) Top 20% of class based upon Cumulative GPA
2) Cumulative GPA of 3.5 or higher after 7 semesters
3) No reports of cheating/plagiarism/suspensions/expulsions

EARNING AN OHIO HONORS DIPLOMA FOR THE CLASS OF 2026 AND BEYOND **NEW**

(must meet all but one of the criteria)

ACADEMIC HONORS DIPLOMA

1. Earn 4 credits of Math, which shall include Algebra I, Geometry, Algebra II or equivalent and another higher level course or a four-year sequence of courses that contains the equivalent content
2. Earn 4 credits of Science, including two units of advanced science.
3. Earn 4 credits of Social Studies
4. **Earn 3 credits of one foreign language or 2 credits each of 2 foreign languages.
5. **Maintain an overall high school grade point average of at least a 3.5 on a 4.0 scale
6. **Obtain a composite score of 27 on the ACT or 1280 on the SAT.
7. Earn two additional seals. (2 beyond the required 2 seals.) Not including Honors Diploma Seal.
8. Field Experience, OhioMeansJobs Readiness Sea*l, Portfolio or Work-Based Learning

* Ohio Means Job Readiness Seal can only count toward #7 or #8; not both.
**Alternative options for 4, 5 or 6:
Complete 12 total credits of College Credit Plus, 3 courses with a score of 3 or Higher on the AP tests, 12 total credits Career Technical (CTAG), Completion or Evidence of Acceptance in a Pre Apprenticeship if required to be older than 18, WorkKeys score of 6 or higher on all tests, Armed Services Vocational Battery with score of 50 or above on the ASVAB, or 250 total hours of Work Based Learning. (This requires a contract and additional paperwork. It is not just hours of working.)

CAREER TECH HONORS DIPLOMA

CTE HONORS DIPLOMA

Scholastic "D"

To earn the Scholastic "D" issued at the yearly Academic Awards Reception, a student must have a cumulative GPA of 3.33 after the 3rd semester of high school. Bars will be issued for each additional year of maintaining the 3.33 Cumulative GPA.

Honor Roll.

1. A student will be listed on the honor roll announced for each grading period if he or she has an average of "B" (3.0) or better with no grade in any subject below a "C".
2. An "I" (Incomplete) grade will disqualify any student from the honor roll unless the incomplete is made up promptly.

POSSIBLE FOUR YEAR TRACKS

COLLEGE PREP	**VOCATIONAL**
English: 4 units	English: 4 units
Math: 4 units	Vocational class: 4 units
Social Studies 4 units	Math: 4 units
Foreign Language 2-3 units	Science: 3 units
Science (Lab) 4 units	Social Studies 3 units
P.E./Health: l/2-l/2 unit	P.E./Health: l/2-1/2 unit
Fine Art: 1 unit	Electives 5 units
Electives: 3-4 units	**21 units**
21 units	

*Students considering attending Vantage Career Center should complete 2 English, 2 Math, 2 Social Studies, 2 Science, Health/P.E. careers and financial literacy, and a minimum of 11 total credits by the end of their sophomore year. Students with deficiencies in any of the above could still qualify for Vantage if deficiencies don't exceed 2 credits.

College Admission Requirements

Each state university (excluding Central State University, Shawnee State University and Youngstown State University) will only admit Ohio students if they have completed the Ohio Core curriculum. A student will be exempted from this requirement if one of the following applies:

- The student has earned at least ten semester hours, or the equivalent, at a postsecondary institution except a state university.
- The student met the high school graduation requirements by successfully completing an individualized education program.
- The person is receiving or has completed the final year of instruction at home or graduated from a non-chartered, nonpublic school in Ohio, and demonstrates mastery of the academic content and skills in reading, writing, and mathematics.
- The person is a high school student participating in the post-secondary or another dual enrollment program.
- The student graduated from high school in another state and has completed a curriculum equal to the Ohio Core, or has demonstrated mastery of the academic content, or is seeking admittance to the university as an international student.
- The student did not graduate from high school, but has completed a GED and demonstrated mastery of the academic content. More than twelve months must have elapsed since the student attended high school.
- Any student demonstrating mastery of some, but not all, academic content of the Ohio Core may be admitted on a case by case basis at the discretion of the university, so long as the university develops and implements a remediation plan for the students designed to achieve mastery of all Ohio Core content.

Technical School Requirements

Most schools require the applicant to be a graduate of a high school or have an equivalent diploma of graduation with preparation in related fields of that school.

Employment Opportunities

Most industries are seeking people with a completed high school education and evidence of good work records. Employers are interested in the pattern of studies taken, school citizenship, attendance record, rank in class, references and attitude toward work.

SCHEDULE CHANGES

The courses selected this spring will determine the schedule of classes for the next school year. These course selections are binding following the verification by parents/guardians. There will be no schedule changes after school begins unless made within the **first five days**, starting with the first day of school. A student who drops a course after this date will result in a WF (withdraw/fail) grade, which will impact GPA and will remain on high school transcript. The administration reserves the right to make schedule changes after the deadline based on individual or special circumstances. Changes that have to be made will be done so according to the following guidelines:

1) Insolvable conflict; two courses offered in the same time slot,
2) Failure of required subject,
3) Procedural errors: Error in computer print-out. Omission of a required class or credit for graduation due to an oversight,
4) Students may substitute another class for a course completed outside of the regular classroom, and
5) Course cancellation.

Any student dismissed from a course for disciplinary or other reasons will be given a failing grade in the course. This grade will be entered in the student's grade accumulation as failed. If the student receives the permission of the instructor, school counselor, and principal to drop a course, he will simply be marked as withdrawn without an academic grade recorded.

Fees. All students will be charged a $55.00 fee. ($12.00 class dues, $8.00 Agenda Book, $10.00 technical fee, and $25.00 Chromebook fee). Students on free lunches may be eligible for a waiver on Chromebook fees.

COLLEGE CREDIT PLUS

College Credit Plus allows academically talented students in grades 7-12 to apply for admission to any Ohio public or participating private college. The program is intended to provide expanded opportunities for appropriately qualified students to experience coursework at the college or university level and receive high school and college credits while in high school.

Enrollment

- Students and parents/guardians must attend a College Credit Plus orientation meeting at DJHS
- **By April 1 of each year**, the student and his/her parents must sign the Notice of Intent and CCP School Contract to participate in the CCP program. Failure to do so will exclude them from participation in CCP.
- Students must apply to the university in which they want to take courses. Each college or university will have their own individual application forms, processes, and procedures that must be followed to be admitted into each program.
- Students must meet the admissions requirements of the participating college or university and must demonstrate college-readiness scores on either the ACT, SAT, or other placement tests selected by the college or university.
- CCP courses may be taken at DJHS, at a college where they have been admitted, or in online courses offered by the college.

Eligibility Criteria

- The college will admit students based on their college-readiness in one or more subject areas.
- A student may not take more than 30 CCP hours per academic year and not more than 120 CCP hours in high school.
- Students may be limited to the number of CCP courses they may take depending on the high school courses they are taking.
- All CCP course grades will appear on the student's HS transcript and computed into their GPA. Classes failed or WD with an "F" will receive an "F" on the HS and college transcripts and will be computed into the HS and college GPA.
- Students enrolled in CCP courses are expected to follow the rules and regulations set by the college/university they are enrolled in, including the drop/withdrawal procedures.

Financial Arrangements

- There is no cost to students for participating in CCP at any Ohio public college/university. If students choose to attend a participating private college, any fees, in accordance with state law, are the responsibility of the student.
- If the student does not receive a passing grade the district may seek reimbursement.

COURSE DESCRIPTIONS

AGRICULTURAL EDUCATION

AG SCIENCE I - Course 174
(Agriculture, Food, and Natural Resources) This is the first course in the Agricultural and Environmental Systems career field. It introduces students to the pathways that are offered in the Agricultural and Environmental Systems career field. As such, learners will obtain fundamental knowledge and skills in food science, natural resource management, animal science and management, plant and horticultural science, power technology and biotechnology. Students will be introduced to the FFA organization and begin to develop their leadership ability. **No prerequisite 1.00 Credit**

AG SCIENCE II - Courses 274
(Animal & Plant Science) Learners will develop business leadership, problem-solving and communication skills in relation to the science and technology of animals. Students will learn responsible animal management principles and routine husbandry practices in relation to animal welfare and behavior. Learners will identify and describe the anatomy and physiology of monogastric and ruminant organisms as it applies to nutrition, reproduction, and animal health. Learners will investigate animal genetics and how it impacts principles of animal improvement, selection and market. **Prerequisite:** AG Science I **1.00 Credit**
Successful Completion of AG Science I and AG Science II = 1 Science Credit

AG BUSINESS I - Course 376
(Communications and Leadership) (SAE included) Students will analyze attributes and capabilities of those in leadership positions and develop their communication and leadership skills in authentic situations. The course prepares students to apply journalistic, communication and broadcasting principles in development, production, and transmission of agricultural and environmental systems information. This course starts at 7:30AM. **Prerequisite:** AG Science II **1.00 Credit**
(Mechanical Principles) Students will engage in the mechanical principles utilized in animal and plant production systems. They will learn electrical theory, design, wiring, hydraulic and pneumatic theory, along with metallurgy in relation to hot and cold metals. Students will apply knowledge of sheet metal fabrication applicable to the agricultural industry as well as identify, diagnose, and maintain small air-cooled engines. Throughout the course, students will learn critical components of site and personal safety as well as communication and leadership skills. **Prerequisite:** AG Science II **1.00 Credit**

*******Communication & Leadership will be an every other year rotation with Mechanical Principles*******

AG BUSINESS II - Course 476
(Business Management for Agricultural and Environmental Systems) (SAE included) Learners will examine elements of business, identify organizational structures, identify and apply management skills. Learners will develop business plans, financial reports and strategic goals for new ventures or existing skills. Learners will use market concepts to evaluate the marketing environment and develop a plan with marketing channels, product approaches, promotion and pricing strategies. Learners will practice customer sales and apply concepts of ethics and professionalism while understanding related business regulations. This course is offered before school, starting at 7:30AM. **Prerequisite:** AG Business I **1.00 Credit**

AGRICULTURAL AND ENVIRONMENTAL SYSTEMS CAPSTONE - Course 474
The capstone course is an opportunity for students to solve problems and demonstrate that they have achieved the requisite knowledge and skills in their chosen agricultural and environmental systems career field pathway. The course is designed to assess cognitive, affective, and psychomotor learning and to do so in a student-centered and student directed manner. The capstone requires the application of learning to a project that serves as an instrument of evaluation. **Prerequisite:** Must be enrolled in AG Business II **2.00 Credits**

FOREIGN LANGUAGE

SPANISH I - Course 117
This course focuses on basic vocabulary, grammar, and pronunciation of the Spanish language. Students will read and listen to the language as well as speak and write. Language production is limited to sentences, brief conversations, and short paragraphs in the present tense. Throughout the course, students are introduced to the geography and culture of Spanish speaking countries. **No prerequisites 1.00 Credit**

SPANISH II - Course 217
This course continues the expansion of vocabulary and grammar of the Spanish language. Students expand reading, writing, listening, and speaking skills to include progressive, past and future tense verbs. Language production expands to more detailed conversations and lengthier paragraphs. Throughout the course, students continue studying the culture of Spanish speaking countries. **Prerequisite:** Earn a B or higher in Spanish I **1.00 Credit**

SPANISH III - Course 317
This course advances students' comprehension and production of the Spanish language. Students will expand vocabulary on topics previously learned as well as more complex grammatical structures including conditional statements and fundamental understanding of the subjunctive. More emphasis will be placed on production at this level. Students will be introduced to lengthier authentic sources of input such as literature and film.
Prerequisite: Earn a B or higher in Spanish II **1.00 Credit**

SPANISH IV - Course 417
This course focuses on Spanish language production and comprehension. Students will have the opportunity to develop the use of all four language skills: reading, writing, speaking, and listening in a variety of authentic situations. Students will continue to acquire vocabulary, develop more sophisticated language usage, and explore authentic sources of input. There is some flexibility based on the interests of the students. **Prerequisite:** Earn a B or higher in Spanish III **1.00 Credit**

SPANISH FOR NATIVE SPEAKERS I-IV
This course is tailored to the unique interests and needs of the native speaker. Students will be integrated into a Spanish course for English speakers, but the focus will be on language use. Students will be expected to share their culture and Spanish language knowledge with peers. Native Spanish speakers who also qualify for ESL services will be supported in both English and Spanish. **Prerequisite:** Native Speaker of Spanish **1.00 Credit**

HEALTH AND PHYSICAL EDUCATION

ATHLETIC or BAND OPTION PE - Course 189
In accordance with ODE, our board has adopted a policy to excuse HS students from the physical education requirement if they, during high school, participated in interscholastic athletics, marching band, show choir or cheerleading for at least two full seasons. Students who choose this option will not earn PE credit but they will be excused from the Physical Education requirement. **No Credit**

PHYSICAL EDUCATION FLEX CREDIT - Course 188FC
Students will develop their own Physical Education program that will be approved by Mr. Brinkman or Mrs. Sterling. Detailed documentation will be required. This physical education course is designed to help students develop a healthy lifestyle which includes physical activity. **.5 Credit**

HEALTH - Course 257
Required for all students. In this course, students will analyze personal physical, emotional, social and intellectual growth for a healthy lifestyle. **.5 Credit**

LANGUAGE ARTS

ENGLISH I - Course 111
In this course, the goal is to build on students' foundational writing and reading skills through the study of world literature. Students will develop their analytical and critical thinking skills by reading short stories, Romeo & Juliet, poems, mythology, and informational texts. Students will engage in twelve units of vocabulary and daily grammar practice. **1.00 Credit**

HONORS ENGLISH I - Course 110
This course is offered for students who want to be challenged, work hard, and become more independent. Working and studying outside of class is expected. While there are similarities between Honors and Standard ELA I, Honors students will be given more complex readings and assignments, will be held to a higher standard and will take more responsibility for their grade and their learning. **Required:** 8th grade teacher recommendation **1.00 Credit**

ENGLISH II - Course 211
This course consists of a review and continuation of the grammar skills learned in English 9. Students will read class novels, in which, reading and analytical skills will be the primary focus. Additionally, writing will be stressed through various essays and long-form prompts. **This course requires a state-mandated End of Course Exam. 1.00 Credit**

HONORS ENGLISH II - Course 210
This course covers the same or similar content as Course 211 with the expectation that students in this course will approach the course with high expectations of themselves and that they will strive for excellence in their work. Students must have satisfactorily completed a previous Honors course in English or must have a recommendation from their previous English teacher to be allowed in this course. **This course requires a state-mandated End of Course Exam. Prerequisite:** Honors English I **1.00 Credit**

ENGLISH III - Course 311
The major concentration in this course is learning to read and write effectively and critically. The reading selections are from American Literature, which includes short stories, poetry, essays, and dramas from Native American writing to the Modern Era. A formal research paper using the techniques of MLA Style. **Juniors will be taking an ACT test in the spring**; this course will continue to build their English and Reading skills. Expectations are that students in this course will meet college-readiness standards in both the English and Reading sections of the ACT. **1.00 Credit**

HONORS ENGLISH III - Course 310
Honors English III has high expectations for students to complete and strive for excellence in their work. **Juniors will be taking an ACT test in the spring**; this course will continue to build their English and Reading skills. Expectations are that students in this course will meet or exceed college-readiness standards of the ACT. **Prerequisite: Honors English I, II 1.00 Credit**

ENGLISH IV - Course 411
This course is designed to prepare students in literature appreciation, critical thinking and analysis, grammar, composition, research, and general communication. This course is intended to challenge and elevate the students' language arts abilities through the study of real-world language application. **1.00 Credit**

AP LITERATURE & COMPOSITION - Course 415
This is an introductory college-level literary analysis course. Students cultivate their understanding of literature through reading and analyzing texts as they explore concepts like character, setting, structure, perspective, figurative language, and literary analysis in the context of literary works. Students devote themselves to the study of literary works written in—or translated into—English. Careful reading and critical analysis of such works of fiction, drama, and poetry provide rich opportunities for students to develop an appreciation of literature. Students will examine the choices literary writers make and the techniques they utilize to achieve

purposes and generate meanings.The goal will be to prepare students for the AP Literature & Composition exam in May. The approximate fee for the AP exam will be $90.00. **Prerequisite:** Honors English III and Teacher Recommendation **1.00 Credit**

FILM STUDIES - Course 316
Film studies is a course intended to familiarize students with the particulars of film history as well as to provide them with a chance to analyze film as a visual art form. This course should appeal to any and all students who love to watch movies and discuss them. This is an English elective that is open to juniors and seniors, **1.0 Credit**

MATHEMATICS

PRE-ALGEBRA - Course 124
The focus of Pre-Algebra is to build the foundation necessary for success in Algebra I. Students will become familiar with the language of algebra, solving and graphing equations and inequalities, operations with rational numbers and integers, ratio and proportion, percent, statistics and graphs, probability, applying algebra to geometry, measurement, basic right triangle trigonometry, and polynomials. Open to freshman only **1.00 Credit**

ALGEBRA I - Course 121
The basic operations of elementary mathematics and variable replacement for numerals, techniques of equation solving, practical applications through the use of word problems, solving inequalities, basic graphing, and polynomial expressions will be covered. Additional topics include simplifying, solving and factoring of polynomial expressions. This course is required for Geometry or Algebra II. **This course requires a state-mandated End of Course Exam. 1.00 Credit**

ALGEBRA 101 - Course 126
The basic operations of elementary mathematics and variable replacement for numerals, techniques of equation solving, practical applications through the use of word problems, solving inequalities, basic graphing, and polynomial expressions will be covered. Additional topics include simplifying, solving and factoring of polynomial expressions. This course is required for Geometry or Algebra II. Open to sophomores or credit recovery only. **This course requires a state-mandated End of Course Exam. 1.00 Credit**

GEOMETRY - Course 224
This course includes material about parallel and perpendicular lines, angles, logic, right triangles, basic trigonometry, quadrilaterals, polygons, transformations, circles, three-dimensional figures, and proofs. A good background in Algebra is essential for this course. **This course requires a state-mandated End of Course Exam. Prerequisite:** Algebra I **1.00 Credit**

ALGEBRA II - Course 321
This course will review the basic procedures learned in Algebra I. Additional topics include: systems of linear equations and inequalities in 2 or 3 variables, radical expressions and equations, polynomial functions, exponential functions, and rational functions. Much emphasis is placed on how various types of equations relate to their graphs. Students will need to purchase a TI 84 graphing calculator for this class. Rentals available $20 fee. **Prerequisite:** Algebra I and Geometry **1.00 Credit**

ALGEBRA 201 - Course 320
The course will review the basic procedures learned in Algebra I. Additional topics include radical expressions, rational expressions, polynomial functions, and exponential functions. **Prerequisites:** Algebra I and Geometry **1.00 Credit**

CCP COLLEGE ALGEBRA/HS TRIGONOMETRY - Courses 8209 & 428
Students will earn 4 college credits through Rhode State College. This course will cover equations and inequalities, graphs and equations of lines, functions including quadratic functions and composite functions, inverse functions, polynomial and rational functions, exponential and logarithmic functions, systems of equations, conic sections, and sequences and series. **Prerequisite:** Algebra II with a grade of B or higher **1.25 Credits**

MATH ANALYSIS - Course 429
This course will cover equations, inequalities, graphs and equations of lines, quadratic functions and composite functions, inverse functions, polynomial and rational functions, exponential and logarithmic functions, systems of equations, conic sections, and sequences and series. **Prerequisite:** Algebra II **1.00 Credit**

ADVANCED PLACEMENT STATISTICS - Course 427
Students are introduced to the major concepts and tools for collecting, analyzing and drawing conclusions from data. The four broad conceptual themes are Exploring Data, Sampling and Experimentation, Exploring random phenomena using probability and simulation, and Statistical Inference. Successful completion of the AP Statistics exam in May could earn college credit. Approximate AP exam will be $90. **Prerequisite:** Algebra II **1.00 Credit**

ADVANCED PLACEMENT CALCULUS - Course 426
This course will include the following topics: Analysis of graphs, Limits of functions, Continuity, Derivatives, Applications of derivatives, Interpretations and properties of definite integrals, Applications of integrals, The Fundamental Theorem of Calculus, Techniques of antidifferentiation, and Applications of antidifferentiation. The approximate fee for the AP exam will be $90.00. **Prerequisite:** Math Analysis or College Algebra **1.00 Credit**

MATHEMATICS THROUGH MODELING WITH STEM/SENIOR MATH - Course 423
In this course, problem based learning of mathematics in real life applications is emphasized. Activities will involve the application of mathematical concepts and practices, as well as critical thinking, and problem solving skills. Activities will develop mathematical practices and will enhance understanding of, and facility with, topics from Algebra II, and select topics from statistics and finance. Mathematics in real life applications is emphasized. Students will gather and analyze data in order to build, use, and evaluate mathematical models of real situations and phenomena. Activities will involve the application of mathematical concepts and practices, as well as critical thinking, and problem solving skills. Activities will develop mathematical practices and will enhance understanding of, and facility with, topics from Algebra II, and select topics from statistics and finance. Only open to Seniors **Prerequisite:** Algebra II **1.00 Credit**

PROJECT LEAD THE WAY (PLTW)

ENGINEERING 1: FOUNDATIONS OF DESIGN AND PROBLEM SOLVING - Course 150

This course introduces students to the fundamentals of the engineering design process. Students learn to identify and solve real-world problems by applying math, science, engineering principles. Using 3D modeling software and engineering notebooks, they create and document their design solutions while developing skills in visualization, technical drawing and CAD fundamentals. Hands-on projects include designing and 3D printing prototypes, enabling students to explore material selection, manufacturability and sustainability. This course is ideal for students who enjoy collaboration and creativity. **Prerequisites**: Students must have successfully completed Algebra I or teacher recommended. **1.00 Credit**

ENGINEERING 2: ADVANCED DESIGN AND PRODUCT DEVELOPMENT - Course 250

This course builds on the foundational skills from Engineering 1, with a focus on assembly design and advanced product design. Students explore reverse engineering, material properties, and sustainability while learning to design systems of components and improve manufacturability. Advanced CAD skills are applied to create and document assemblies, culminating in projects like designing electromechanical solutions. Students also engage in troubleshooting and redesigning real-world products to improve functionality and efficiency. **Prerequisites**: Students must have successfully completed Engineering 1. **1.00 Credit**

ENGINEERING 3: COMPUTER INTEGRATED MANUFACTURING (CIM) - Course 350

This course focuses on modern manufacturing processes and the integration of robotics and automation in product creation. Students deepen their skills in CAD and learn Computer Aided Manufacturing (CAM) to program and operate CNC mills. They also explore robotic automation, including programming robotic arms and integrating them into manufacturing systems. The course culminates in a capstone project where students design, build, program, and present a manufacturing system model. **Prerequisite**: student must have successfully completed Engineering 2. **1.00 Credit**

ENGINEERING 4: PLTW CAPSTONE

This is the capstone course where students apply their engineering knowledge to solve open-ended, real-world problems. Working in teams, students identify, research, and develop innovative solutions, using processes such as design, experimental methods, and software development. Projects emphasize collaboration, project management, and technical communication, culminating in presentations to professional panels. Students gain experience in teamwork, prototyping, and stakeholder engagement, preparing them for technical careers or further education. **Prerequisite**: student must have successfully completed Engineering 3. **1.00 Credit**.

SCIENCE

PHYSICAL SCIENCE (PEC) - Course 144

Physical Science is a high school introductory-level course which satisfies Ohio Core requirements (ODE, 2008). It introduces students to key concepts and theories that provide a foundation for further study in other sciences and advanced science disciplines. Physical Science comprises the systematic study of the physical world, as related to chemistry, physics, earth and space science. Students engage in investigations to understand and explain the behavior of nature in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. **No prerequisite 1.00 Credit**

BIOLOGY - Course 241

Biology is the study of all living things from viruses, bacteria, molds, plants and flowers to protozoa, worms, insects, fish, frogs, birds and man. During the year students will make their own "slime" (pond water microcosm) culture bacteria, dissect eight different animals, and prepare microscopic slides, among many lab activities. A foundation of the cell, its structure and function is stressed as the basis of all living things. Biology students will gain chemical knowledge of life through understanding of DNA, RNA, proteins, fats, and carbohydrates. **This course requires a state-mandated End of Course Exam.** 1.00 Credit

CHEMISTRY - Course 344
This course provides the basic facts and concepts reviewed in a framework of laboratory and textual content. Material is developed on atomic structure, periodic table, chemical composition, chemical bonds, chemical equations and problem solving. Desirable laboratory skills and techniques are developed by the use of selected experiments. **Recommendation:** Students complete Geometry before taking Chemistry **1.00 Credit**

ANATOMY & PHYSIOLOGY - Course 441
This course will stress a student's ability to locate, research, and present material in a scientific fashion. This course is needed for any student wanting a background in human anatomy for either a medical related career or just for a strong science major. Designed as a college-type course, this course deals with areas such as: genetics, metabolism, biochemistry, DNA, nerve and muscle physiology, the heart and EKG's, blood, bone, liver-kidney structure, and cancer. Routine hospital tests and procedures will be discussed along with some lab experiments. Independent science projects are required. This course is designed for seniors but allows juniors who have good science ability. **Prerequisite:** Chemistry 1**.00 Credit**

PHYSICS - Course 446
This course provides the concepts of basic facts from the problem solving approach using theoretical and mathematical consideration of natural laws. Laboratory work is used to give students practical experience with matter and energy, force and motion, heat, sound, and light. **Prerequisite:** Algebra II **1.00 Credit**

GEOLOGY- Course 348
Geology incorporates chemistry, physics, and environmental science and introduces students to key concepts, principles and theories within geology. Students will explore content including the study of minerals, igneous rock, metamorphic rock, sedimentary rock. Students will also explore plate tectonics, the Earth's history, and glacial geology, and the Earth's resources. **1.00 Credit**

SOCIAL STUDIES

WORLD STUDIES - Course 134
The students will cover the basic facts of major themes of the 19th and 20th centuries and master the following social science skills: interpreting data, evaluating credibility of sources, analyzing bias, and checking the accuracy of facts. The class follows the academic content standards set forth by the state. The themes and skills covered in American History I will be revisited in more detail and specificity in Social Studies II. **1.00 Credit**

AMERICAN HISTORY - Course 234
The students will expand their grasp of information covered in Social Studies I. Students will use illustrations, graphs, lectures, presentations, visuals, projects, group work, and historical scenarios to heighten their knowledge of the major themes and skills. The class is geared to prepare the students for the Ohio Social Studies Test.
This course requires a state-mandated End of Course Exam. 1.00 Credit

AMERICAN GOVERNMENT - Course 434
Choice is a focus for social studies instruction at this level. How political, social, and economic choices are made; who makes them; and the effects of those choices. This is a mandatory course for juniors as it gives an overview of government and a foundation in economics. **This course requires a state-mandated End of Course Exam 1.00 Credit**

ECONOMICS - 104
The course will explore the fundamentals that guide individuals and nations as they make choices about how to use limited resources to satisfy their wants, placing focus on micro and macroeconomic concepts, as well as the global economy. **.5 Credit**

PSYCHOLOGY - Course 432
The course introduces students to the study of the behavior and mental processes of human beings. Students are exposed to the psychological facts and principles associated with each of the major subfields within psychology. Topics covered include developmental psychology, the biological bases of behavior, sensation and perception, cognition, personality, social psychology, and abnormal psychology. This course will meet the requirement for the fourth Social Studies credit for the honors diploma; therefore, students who are on schedule for earning the honors diploma will have priority in placement in this class. Social studies elective. Open to Juniors & Seniors only**. 1.00 Credit**

FINANCIAL LITERACY - 103
This course is aligned to Ohio's New Learning Standards. It will examine the ability of individuals to use knowledge and skills to manage limited financial resources effectively for a lifetime of financial security. An emphasis will be placed on preparing students for their immediate financial future and teaching skills that will be applicable in real-world situations. **.5 Credit**

ELECTIVES

APPLIED COMMUNICATIONS: YEARBOOK - Course 309
Students in this course will plan the school yearbook. This course meets as a club and may require hours outside of the typical school day. Students will be required to plan a yearbook and understand the business of a yearbook (income, expenses and budget) and the role of advertising, recognize and plan page layouts of body copy, captions, headlines, and pictures, and understand the legal issues involved. This class will count as a fine arts credit. Application and teacher and administrator approval required. Also new requirement, if in yearbook, must take a technology course at same time (digital media, photoshop, video editing). Open to 10th-12th graders **1.00 Credit**

CAREER EXPLORATION - Course 100
Recommended to take Sophomore year . This course helps students engineer the life they want to live and lead an economically self-sufficient life upon transition into/or completion of post-secondary education and training. It is designed to empower students to academic, career, and life success. Students will engage in a self-discovery process to better understand their values, skills, strengths and passions. **0.500 Credit**

BUSINESS COMMUNICATION & APPLICATIONS/BUSINESS ESSENTIALS - Course 307 **NEW**
This course will cover leadership excellence, Microsoft Word, Power Point, Excel, and Outlook with Certifications for each section. One semester will focus on the leadership and business communication; the other semester will focus on the technology. **Open to 11-12th graders. 1.00 Credit**

DIGITAL MEDIA - Course 313
Learning basic design principles using different media tools to create content for online publication. Students will learn to create and edit photography, video, and audio for final production. During the first semester students will focus on Photoshop and video editing during the second semester. Students will learn to use Adobe Creative Cloud. This course counts as a fine art credit. Open to Sophomores, Juniors and Seniors. **1 Credit**

DIGITAL MEDIA II - 413
This course is an expansion and continuation of Digital Media. Students will develop a refined vision of video and audio. **Prerequisite**: Digital Media I. **1.00 Credit**

PHOTOSHOP - Course 304
This is an advancing course of Adobe Photoshop, including photos and creating multiple edits. Students will advance into the design principles for Adobe Illustrator. Students will learn how to use the different tools and how to advance edit. **Open to sophomores, juniors and seniors 0.500 Credit**

VIDEO EDITING - Course 305
During this course of video editing, students will use Premiere rush and advance to Premiere Pro in the Adobe Creative Cloud program. This course will also include creating videos and other productions. **Open to sophomores, juniors and seniors. 0.500 Credit**

JEFFERSON VOLUNTEER - Course 330
Students enrolled in this class provide service to the middle school and Franklin. All participation in this course must be approved by the administration. This will take place during a scheduled study hall. This may be used for the volunteer graduation seal. Students' overall character and dependability will be assessed, and service opportunities may be limited; therefore, not all students who schedule this class will be accepted. Scheduling priority to upperclassmen. **Requirement:** Valid Driver's License **No Credit**

MEDICAL TERMINOLOGY
Discusses an understanding of foundational medical terminology used in communication with the health care team. Terminology pertaining to the treatment of disease, including standard abbreviations, anatomic, diagnostic, symptomatic, eponymic, laboratory, pathologic, radiology, anesthetic, operative and drug items will be covered. This will be a CCP course. **Prerequisite**: must apply for admission to Rhodes State College and be admitted as well as completion of all required CCP paperwork. **Credit .67 high school**

MEDICAL LAW & ETHICS - HEALTHCARE
Introduces the principles of law, ethics, etiquette, and bioethics as they apply to the healthcare worker. The medical record as a legal document is reviewed. Issues of treatment consent, patient confidentiality, and technology's impact on healthcare delivery is addressed. Discussion of governmental regulations, legal statutes, and their impact on healthcare delivery. This will be a CCP course. **Prerequisite**: must apply for admission to Rhodes State College and be admitted as well as completion of all required CCP paperwork. **Credit .67 high school**

SENIOR SEMINAR - 300
This class will be required of all seniors. This course will help seniors with fulfilling all senior to-do's; including CPR training, resume building, college applications, FAFSA, scholarships, graduation requirements, etc. Ohio Means Jobs coach will be meeting with students during this time; college visits; employment opportunities and military talks; other guest speakers; job shadowing. **1.00 Credit**

SENIOR EARLY RELEASE - Course SR
The release is offered to seniors for 8th period. Senior release counts as a study hall per the schedule policy. The senior is not permitted to loiter in halls once released after 7th period and must remain in good academic standing. Senior release can be rescinded, and seniors placed in study hall, if the senior violates school rules or is failing classes. Senior release requires a parent/guardian signed form. **No Credit**

EMPLOYMENT CREDIT - Course 401
Students must complete at least 120 documented hours through a work or community service experience. State law provides that districts and schools are responsible for defining the requirements for the work experience or community service experience. This may include participation agreements, research papers, requirements for the documentation of hours and evaluation of work experience objectives. *Does not count towards athlete eligibility. **Open to Seniors only 1.00 Credit**

ART

GENERAL ART - Course 182
Students will form a portfolio of their artwork while exploring 2-D Art media such as pencil, charcoal, pastels, paints. Projects will touch on history of art, cultural art, and social/modern art. Will meet the fine art requirement for graduation and/or honors diploma. Open to sophomores, juniors or seniors. **1.00 Credit**

ADVANCED ART - Course 282 - dependent on enrollment and availability.
Students will continue on general art skills and advancing students' portfolios in a variety of projects.These projects would be more student-led. **Prerequisite**: General Art. **1.00 Credit**

MUSIC

HIGH SCHOOL BAND - Course 185

This course is a year-long course that consists of both marching band and concert band responsibilities. This band class focuses on building basic musicianship skills and performing skills. The high school band performs at concerts, contests, parades, football games, commencement and other performance opportunities. There are other band opportunities within the band program including jazz band, pep band and pit orchestra. A student must be a member of the high school band or mixed choir in order to participate in any of the groups listed prior. The high school band is open to any student in nine through twelve who have a high school level playing ability. Other students may be approved by the band director on a case by base basis. **1.00 Credit**

COLOR GUARD - Course 184

The color guard class is a half year course that occurs during the first semester. This class is an extension of the high school band class and will meet during the same period. Students in the color guard class will learn flag twirling fundamentals and performing skills. Color guard members will attend all marching band events. Following the end of the marching band season, color guard members will remain in the band program until the end of the 2nd quarter. During this time, students will learn an instrument and perform with the concert band during the winter concert. The color guard class is open to any students in grades 9-12. **½ Credit.**

JAZZ BAND - Course 186

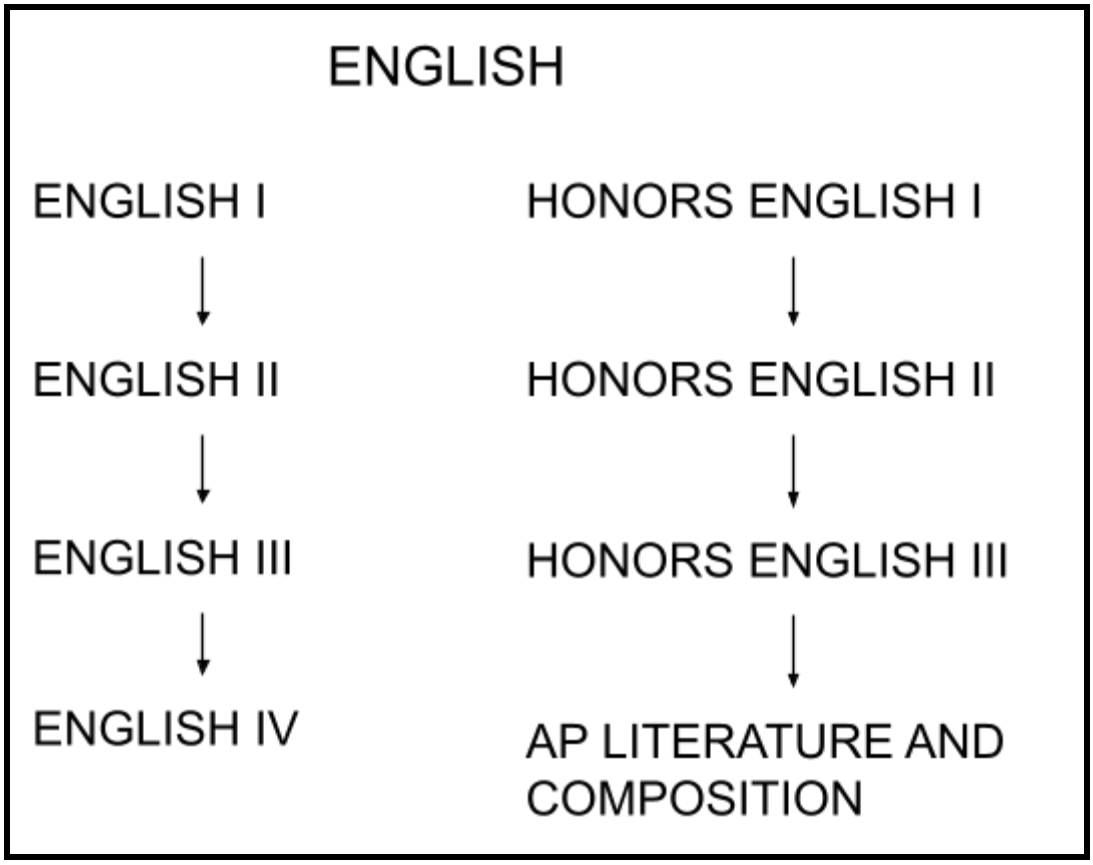
The jazz band is an instrumental ensemble group that meets Tuesdays and Thursdays after school. While participating in the jazz band, students will learn about and perform a variety of different jazz genres by a variety of different composers. Students will improve on the fundamental skills necessary to perform in a jazz ensemble, such as improvisation, syncopation, and the ability to perform in a swing style. Throughout the school year, students will showcase their work at concerts, school events, and community events. In order to be a member of the jazz band, students must be actively enrolled in either the band class, choir class, or music technology/theory class. **½ credit**

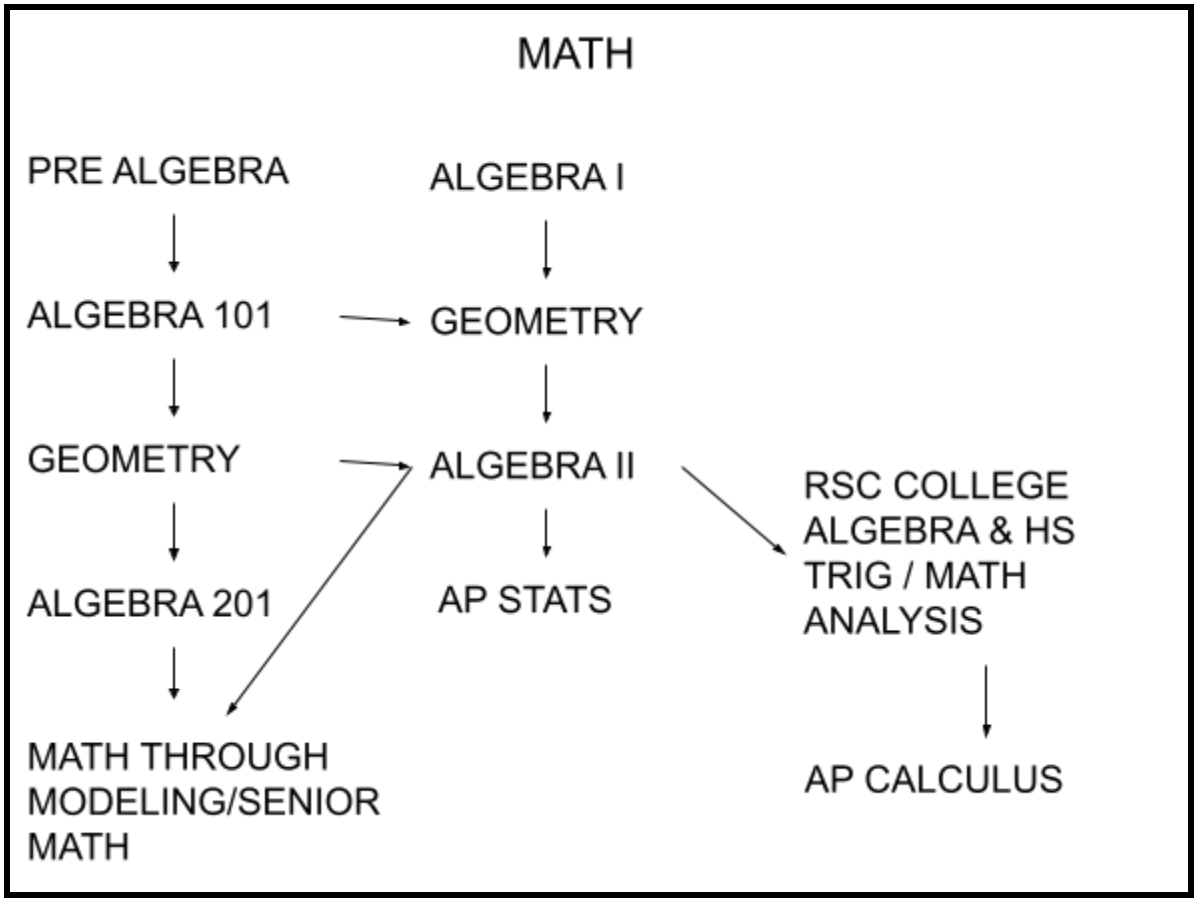
MIXED CHOIR - Course 283

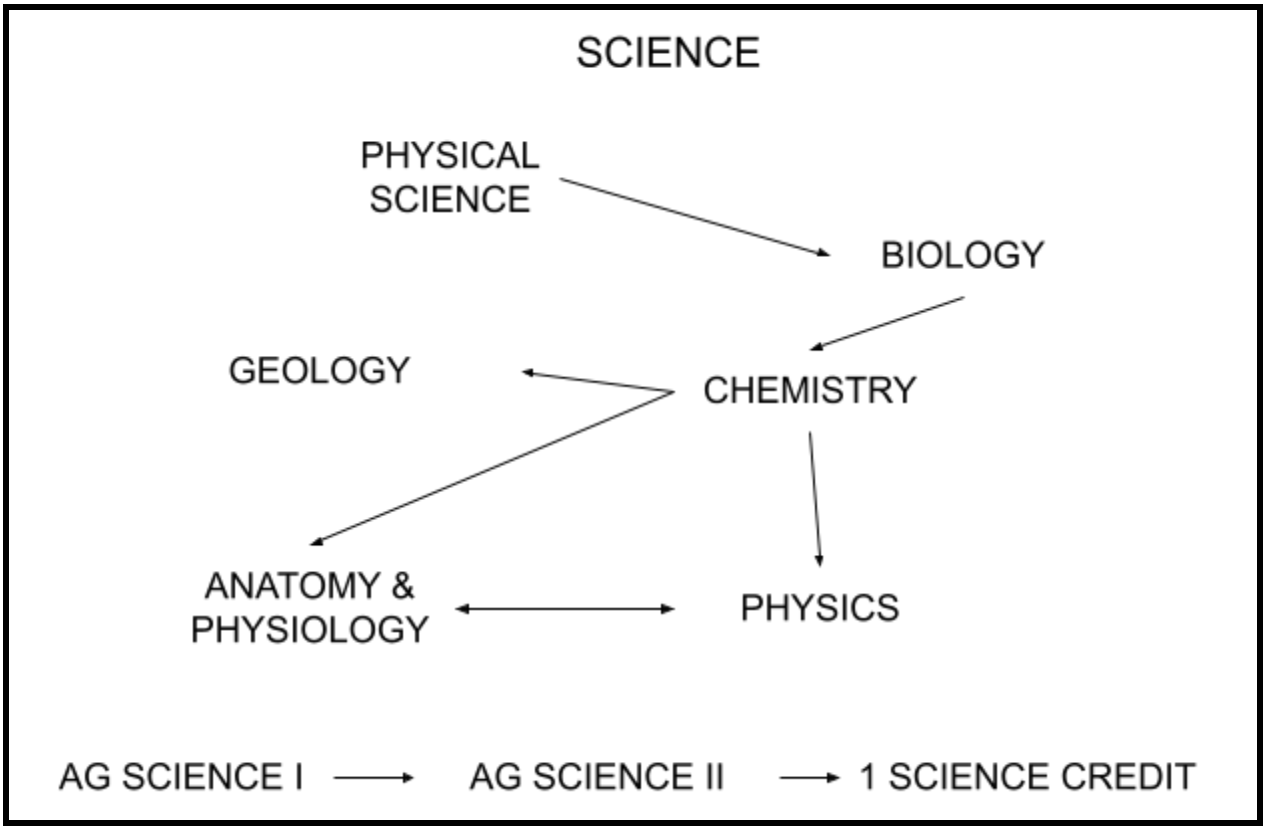
This course grows the students' concept of the art of singing. Students will grasp the importance of self-discipline, teamwork, and be challenged to express themselves through music. This course is open to all students. It offers participation in school programs and large group contests**. 1.00 Credit**

SHOW CHOIR

This is a singing and dancing ensemble group that meets Monday and Fridays after school. While participating in the show choir, students will learn about and perform a variety of different genres by a variety of different composers. Students will improve on the fundamental skills necessary to perform vocaling and with dance ability. Throughout the school year, students will showcase their work at concerts, school events, and community events. In order to be a member of the show choir, students must be actively enrolled in the choir class. Auditions are held in May prior to the school year. Audition fee covers accessories (hose, shoes, shirt, tie, spanks, as needed). **½ credit**


ENGLISH
ENGLISH I
ENGLISH II
ENGLISH III
ENGLISH IV
HONORS ENGLISH I
HONORS ENGLISH II
HONORS ENGLISH III
AP LITERATURE AND COMPOSITION


MATH
PRE ALGEBRA
ALGEBRA I
ALGEBRA 101
GEOMETRY
GEOMETRY
ALGEBRA II
RSC COLLEGE ALGEBRA & HS TRIG / MATH ANALYSIS
ALGEBRA 201
AP STATS
AP CALCULUS
MATH THROUGH MODELING/SENIOR MATH


SCIENCE
PHYSICAL SCIENCE
BIOLOGY
GEOLOGY
CHEMISTRY
ANATOMY & PHYSIOLOGY
PHYSICS
AG SCIENCE I
AG SCIENCE II
1 SCIENCE CREDIT