



# 2024-2025 Course Catalog

**Columbus Preparatory Academy**  
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Columbus, Ohio 43204  
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**\*\* State Tested Subject**

**Blue indicates courses offered for the 2024-25 school year**

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## Graduation Requirements

Ohio's new *Graduation Pathways* for the **Class of 2023 and beyond**, offers flexibility for each student to play on his/her strengths and passions to find a personal pathway to graduation.

### 1. Minimum Requirements

<b>English Language Arts</b>	4 Credits
<b>Mathematics</b>	4 Credits
<b>Science</b>	3 Credits
<b>Social Studies</b>	3 Credits
<b>Physical Education</b>	½ Credit
<b>Health</b>	½ Credit
<b>Electives</b>	5 Credits

#### Other Requirements:

- Economics and/or Financial Literacy - 0.5 credits
- Minimum of 2 Semesters of Fine Arts (to include painting, sculpture, architecture, music, performing arts, and photography) - 1.0 credits

### 2. Show Competency

- Must pass the Algebra I and English II State Standardized Tests–
  - If you still do not pass these tests after additional support and taking them again for a second time, then you have three options to show your competency in these areas.

<b>Option 1</b>	<b>Option 2</b>	<b>Option 3</b>
Demonstrate Career Two Career Focused Activities– <ul style="list-style-type: none"> <li>● Acceptance into a career-focused industry credential program</li> <li>● OhioMeansJobs Readiness</li> </ul>	Enlist in the Military <ul style="list-style-type: none"> <li>● Show evidence that you have signed a contract to enlist in any branch of the U.S. armed services upon graduation.</li> </ul>	Complete College Coursework <ul style="list-style-type: none"> <li>● Earn credit for one college-level math course and one college-level English course through College Credit Plus.</li> </ul>

### 3. Show Readiness

Must earn TWO of the following diploma seals. These seals are to align with your personal goals and interests upon graduating from high school.

- Seals (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 (Local)
  - Student Engagement Seal (Local)

Want to Learn More?

<https://education.ohio.gov/getattachment/Topics/Ohio-s-Graduation-Requirements/Sections/Classes-of-2023-and-Beyond-Graduation-Requirements/GradReq2023.pdf.aspx?lang=en-US>

Or Visit

[education.ohio.gov/graduation](https://education.ohio.gov/graduation)

## Academic Dishonesty

- If a student is suspected of cheating or plagiarism, the instructor will communicate with the student.
- If it is confirmed that a violation has occurred, the instructor will determine which of the following penalties is to be applied:
  - The student may fail the test or paper in question.
  - The student may be required to resubmit the work or to do additional work.
  - The student may be assigned a grade of F for the course.

When an instructor knows that academic dishonesty has occurred, they will file a written report with the Department Chair and the Dean of Students. The report will include:

- the student's name
- the nature and pertinent evidence of the violation
- the student's response

- any action taken by the instructor

Once a report is received, the Dean of Students or designee may impose appropriate disciplinary sanctions. If no further action is requested or deemed warranted by the circumstances, the Dean will simply retain the report. If multiple reports are received regarding suspected or substantiated academic dishonesty by the same student, the Dean of Students will refer the case to the Executive Director. The Executive Director has the discretion to take further steps toward disciplinary action which may include expulsion from the school. **(Note: a student may not withdraw from a course in which they have failed due to academic dishonesty.)**

**\*\*\*If the student feels they have been wrongfully charged with plagiarism, cheating, or academic dishonesty, they may wish to consider filing a formal grievance. The student should contact the Dean of Students.**

## Add/Drop Courses

- A signed ADD/DROP form must be submitted by the deadline and signed by the parent, teacher, student, and school counselor.
- Final decision will be based on graduation requirements.
- The add/drop window is 5 days after the start of the course.

## Repeating Courses

A student in high school must repeat required core courses for which a failing grade of “F” is earned. These courses (or semester courses) may be repeated during the summer or during the academic year if the schedule permits. If a student delays repeating the course, it may affect the student’s credits earned and expected graduation date. Upon completion of the course with a satisfactory grade, the failing grade will be replaced on the student’s transcript.

- If a student repeats a class due to not mastering the material, the new grade replaces the old grade on the transcript and will be included in calculating the cumulative grade point average.
- If the student chooses not to repeat an elective course for which a failing grade of “F” is earned, the “F” will appear on the student’s transcripts.

## College Credit Plus (CCP)

Columbus Preparatory Academy affords their students in grades 7-12 enrollment full-time or part-time in a post-secondary institution to take courses for high school and/or college credit. A post-secondary institution or college is defined as any state-assisted college or university described in the Ohio Revised Code or any nonprofit institution holding a certificate of authorization. The administration will approve participation by students who apply to the participating college or university and meet their academic program requisites for admission, enrollment, and course placement.

- Students enrolled in CCP courses must maintain a passing grade of C or better prior to the drop/no funds returned deadline or will be withdrawn from the said course.
- Any student who fails a CCP course will be required to reimburse the school the sum of the course and textbook fees as determined by the institution in which the student is enrolled.

### Colleges Offering CCP

- Columbus State Community College
  - [Columbus State Community College CCP Information](#)
- Ashland University
  - [Ashland University CCP Information](#)
  - [Ashland University CCP Handbook](#)
- Otterbein University
  - [Otterbein University CCP Information](#)
- The Ohio State University
  - [OSU CCP Information](#)

## PSAT/SAT/ACT

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The PSAT/NMSQT is required of all students in Grade 11. Columbus Prep Academy requires 10th-grade students to take it for practice. It takes 2 hours and 45 minutes and consists of 3 tests: (1) the Reading Test, (2) the Writing and Language Test, and (3) the Math Test. Most of the questions are multiple-choice, though some math questions ask you to write in the answer rather than select it.

The SAT test is very similar to the PSAT. It also consists of a Reading test, a Writing and Language test, and a math test. Most of the questions are multiple-choice, though some math questions ask you to write in the answer rather than select it. On all questions, there's no penalty for guessing: if you're not sure of the answer, it's better to guess than leave the response blank.



Juniors at CPA will take the ACT in the spring of each year through the school. The purpose of the ACT test is to measure a high school student's readiness for college and provide colleges with one common data point that can be used to compare all applicants. There are four ACT sections: English, Reading, Math, and Science. The ACT also includes an optional 40-minute Writing Test. Some colleges may require that you complete the ACT Writing Test.

## Credit Flexibility

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Columbus Preparatory Academy offers options to students to earn high school credit by:

1. testing out or showing mastery of course content
2. pursuing an educational option and/or an individually approved option
3. any combination of the above.

**Credit Flexibility** applies to any alternative coursework, assessment, and/or performance. If a student is using Credit Flexibility to receive equivalent graduation credit, they must apply for and receive approval from the administration in advance. Approved credit awarded through this policy will be posted on the student's transcript and counted toward a student's grade point average (GPA), and graduation credit in the related subject area or as an elective.

**\*\*\*Credit Flexibility may not be used for credit recovery; however, it may be considered if there is an extenuating circumstance and the final decision will be made by the administration.**

Credit Flexibility is the customizing of educational coursework to the learning styles and interests of individual students. Students show what they know and move on to higher-order content they are ready to learn and have not yet mastered. They learn subject matter and earn course credit in ways not limited solely to “seat time” or the walls of a school building. They customize aspects of their learning around their interests and needs, which might include flexible schedules and a choice of modalities (e.g., online learning, work-based learning and community-based projects).

### Benefits of Credit Flexibility

Credit Flexibility has benefits for students, parents, businesses, and schools:

- o Personalizes learning by accommodating learning styles, paces, and interests
- o Recognizes the importance of student engagement and ownership
- o Focuses on performance versus time; it's not how the student learns but what the student demonstrates

- o Promotes integration of learning
- o Matches pacing to learning capacity
- o Recognizes learning occurs outside of pre-determined classes

### **Examples of Credit Flexibility**

Credit Flexibility reaches beyond earning traditional course credit to allowing credit to be earned toward graduation curriculum requirements through experiences meaningful to individual students.

- o Traditional coursework: distance learning, online learning, after-school programs
- o Educational Options: testing out, educational travel, independent study, internships, community service, work-based learning
- o Career Technical blend: program credit, academic credit, work experience
- o Individualized learning to fill gaps in learning based on assessed performance

## Catalog of Courses

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\*\* State Tested

### English Language Arts (Graduation Requirement– 4 Credits)

#### 100 English 9– 1 Credit

- *No Prerequisite*
- Students learn the basic elements of both composition and literature. Instruction in composition emphasizes the writing process, including grammar and usage, sentence structure, and multi-paragraph writing. Students will also study various essay structures and engage in the writing process of various forms of writing. Basic elements of literature such as theme, plot, character, and setting are emphasized, as well as literary techniques and styles used by various authors. Students will read, write, and analyze complex and age-appropriate literature. They will practice effective reading strategies for classic and contemporary texts, as well as nonfiction and informational texts.
- Speaking and listening skills are emphasized through both discussions and formal presentations. Students analyze text to determine the main idea, and point of view, cite evidence, make inferences from the text, and comprehend complex texts from a variety of genres including informational text, literary nonfiction, poetry, short stories, plays, and novels. Students will expand their skills in grammar and structure, producing clear and coherent writing that is developed, organized, and appropriate for the intended purpose and audience.
- Supplies– Texts will be assigned as the year progresses. Students/Guardians will be responsible for purchasing novels unless otherwise specified.

#### 110 English 10\*\*– 1 Credit

- *Prerequisite– Successful completion of English 9*
- Students will read, write about, and analyze complex and age-appropriate literature. Students will review and practice reading strategies for understanding complex texts; classic and contemporary literature, as well as non-fictional and informational texts. Students will also study essay structure

through the writing process for various forms of essays. This course develops deeper reading, writing, and critical-thinking skills through encounters with authors from various countries, cultural traditions, and literary genres.

- Supplies– Texts will be assigned as the year progresses. Students/Guardians will be responsible for purchasing novels unless otherwise specified.

### **120 English 11– 1 Credit**

- *Prerequisite – Successful completion of English 10*
- Students will read, write about, and analyze complex and age-appropriate literature. Students will review and practice reading strategies for understanding complex texts; classic and contemporary literature, as well as non-fictional and informational texts. Students will also study essay structure through the writing process for various forms of essays. Throughout their investigation of historical and contemporary texts, students examine some of the fundamental myths, assumptions, and popular perceptions that influence American ideals. Engaging with fiction, nonfiction, poetry, and drama, students develop an awareness of genre, purpose, and rhetorical strategy.
- Supplies– Supplies– Texts will be assigned as the year progresses. Students/Guardians will be responsible for purchasing novels unless otherwise specified.

### **130 English 11/12 – 1 Credit**

- *Prerequisite – Successful completion of English 9/10 with a B or higher OR Successful completion of English 10 with an A and a teacher recommendation*
- Students take this course as an accelerated track to enroll in College Credit Plus courses.
- Students will read, write about, and analyze complex and age-appropriate literature. They will practice effective reading strategies for classic and contemporary texts, as well as nonfiction and informational texts. Specific attention will be paid to the continued development of active reading and language skills, the development of the essay, the progression of mindful and intensive revision skills, and an appreciation for and curiosity about literary history.
- This is a seminar-based course. Most assigned reading will be done outside of the classroom. This course requires intensive reading and more complex analysis of literature at an accelerated pace. Extensive annotations of texts will also be expected.
- Supplies– Texts will be assigned as the year progresses. Students/Guardians will be responsible for purchasing novels unless otherwise specified.

### **140 English 12 – 1 Credit**

- *Prerequisite - Successful completion of English 11*
- Students will read, write about, and analyze complex and age-appropriate literature. By reading, synthesizing, and evaluating a wide range of texts, students will develop an awareness of audience and purpose. Using models of literary expression as their guides, students will write creatively and persuasively in analytical, reflective, personal narrative, and argumentative forms. They will practice effective reading strategies for classic and contemporary texts, as well as nonfiction and informational texts. Students will also study various essay structures and engage in the writing process of various forms of writing to mastery standards.

- Supplies– Texts will be assigned as the year progresses. Students/Guardians will be responsible for purchasing novels unless otherwise specified.

**M190 English 6** - 1.0 Credit

**M191 English 7** - 1.0 Credit

**M192 English 8** - 1.0 Credit

### Language Arts Electives

**M142 Film as Literature** - 0.5 Credit

- In this course, students will examine films as texts, and will be taught how to interpret what they see on the screen by making use of the technical vocabulary of film analysis and appreciation.
- Students will learn to critically evaluate films as an art form and a means of communication beyond their entertainment value through collaborative discussion and analysis.

**144 Survey of Literature** - 1.0 Credit

- This course introduces students to literary and textual study of world cultures with attention to various genres and to essential literary terminology and practice.
- This course highlights the evaluation and analysis of poetry, fiction, non-fiction, dramatic literature, and other genres in order to promote an understanding of cultural/historical contexts and the human values uniting these varied literary traditions.
- Students will analyze literary texts within cultures using appropriate literary terminology
- *This is a reading intensive course*, though students will also be expected to write about the literature as well.

**145 World Literature** - 1.0 Credit

- *Prerequisite– Freshman, Sophomore, Junior, or Senior status*
- This course offers students the opportunity to study representative world literature from Western and non-Western traditions. This course highlights the evaluation and analysis of poetry, fiction, non-fiction, and dramatic literature in order to promote an understanding of cultural/historical contexts and the human values uniting these varied literary traditions.
- Class discussions, assignments, and written work will emphasize critical thinking as well as high standards of excellence in terms of language mechanics and clarity of thought.

**150 Film and Literature**– 0.5 Credit

- *Prerequisite– Junior or Senior status, successful completion of English 10*
- This course focuses on analyzing the art of film, including cinematography, audiovisual elements, genre tropes, and more. Students will learn about the art of critically viewing films. Students will view films that are adaptations of classic pieces of literature. The intent of viewing the films is to strengthen students' critical analysis of the selected works, many of which have a strong literary link and are adaptations of novels, short stories, musicals, and plays. Students will produce both written and oral analyses of the films viewed in class. The ability to critically analyze and compare “reading” a film and the written text will be a major goal. The students will become

familiar with concepts of film as a means of telling a story through cinematography, direction, editing, screenplay, adaptation, and actors.

- Assessments can be based on frequent writing assignments, tests, quizzes, and projects through which students will improve analytical, interpretive, stylistic, organizational, and presentation skills.
- Some literature and films may contain mature content, discretion is advised.

### 155 Composition/Literature - 1.0 Credit

- *Prerequisite*– Junior or Senior status, successful completion of English 10
- Students learn how to analyze, summarize, and evaluate written works.
- Additionally, students will learn grammar and the writing process. Through practical work, students learn how to choose a side when writing a piece, and how to write argumentatively and persuasively for their side. They will also learn how to identify and write for an audience.
- Other skills include:
  - Essay writing
  - Editing
  - Academic writing
  - Source citing
- Students will write several expository, expressive, and persuasive essays, using a variety of rhetorical modes, and will take compositions through several drafts to develop ideas and writing styles. The course also focuses on informal writing and composing responses to prompts. Students will develop proficiency in finding, evaluating, and synthesizing sources into informative and persuasive writing.

### 160 Mythology - 0.5 Credit

- *Prerequisite*– Junior or Senior status, successful completion of English 10
- This course focuses on analyzing and evaluating the three major themes of mythology using Greek and Roman myths, and using myths from various cultures around the world. This course will include the historical background of classical cultures and more diverse global cultures. Readings may include myths from Babylonian, Egyptian, Eastern, Pacific, Norse, Celtic, African, American, Native American, and British traditions. The course will include the historical background of each culture and the effects myths have on our modern vocabulary, literature, communications, and popular culture.

### 165 Humanities and Cultural Studies– 0.5 Credit

- Cultural Studies is a semester-long course that focuses on how the shared themes in multiple cultures shaped our past and impact our present and future. Students will read literature and be challenged to make relevant connections in and between the cultures studied in class. These themes will guide classroom discussion, student writing, and research. Students will write informational/explanatory texts, arguments, narratives, and other modes.
- Students will explore and make connections between cultural expression and cultural identities through art, culture, literature, philosophy, and religion.
- This is a project-based course with a final project on a specific culture of student choice. Students will create an interactive, multimedia presentation and a research paper.

### 166 Poetry - 0.5 Credit

- Students will study models of good writing and experiment with poetry. They will develop a sense of speaker and audience. They will provide positive support for their fellow writers and learn to revise their work using concrete, sensory details and appropriate choice of diction, syntax, purpose, and audience.
- Students will analyze the use of literary devices and figurative language including simile, metaphor, personification, hyperbole, irony, and imagery. Students will also analyze the use of sound techniques such as rhyme, rhythm, meter, alliteration, assonance, consonance, and onomatopoeia.
- Students will create their own original poetry using these techniques, as well as analyze poetry from authors such as Shakespeare, Frost, Hughes, Milton, and Cummings.

### 170 Public Speaking— 0.5 Credit

- *No Prerequisites*
- This semester-long course will expose students to a wide variety of public speaking experiences. The primary focus of this course is to prepare students for speaking in front of an audience where student choice and creativity are a primary focus as well. Students may be required to research, organize, and present on a variety of issues. Projects include, but are not limited to, informative, story-telling, demonstrative, marketing, and persuasive presentations. In this class, students will learn to form effective connections with an audience and utilize the skills to communicate with them. Instruction will also focus on the finding, synthesizing, and documentation of research into speeches. All students will participate in the presentation and delivery of impromptu, extemporaneous, and prepared material.
- This is a project-based course where projects range from the reading of a favorite song to performing a TED Talk. Students will also participate in impromptu “talking points” where the building of audience skills is emphasized.
- Communication concepts such as discussion, public speaking modes, research, and delivery of speeches allow the student full exposure to the speaking and listening process and the opportunity to develop speaking skills and strategies. All students will participate in the presentation and delivery of impromptu, extemporaneous, and prepared material.

### 172 Debate - 0.5 Credit

- *Prerequisite— Sophomore, Junior or Senior status, successful completion of English 9*
- This is a course for those who wish to develop skills in effective oral communication, critical thinking, analysis, argumentation, and expression by learning different formal and informal debate techniques through active participation. Methods of research, persuasion, logic and reasoning, and speech delivery are stressed.

### 175 Yearbook - 1 Credit

- *Prerequisite – Freshman, Sophomore, Junior, or Senior status; Teacher recommendation or application*
- Yearbook is a class for students who are interested in working on the CPA Yearbook. Students gain journalistic skills in writing copy, designing layouts, photography, business, advertising, and

marketing. Students will be responsible for layouts, photography, sales campaigns, copywriting, and graphic design. Students will also be responsible for planning, arranging interviews and pictures, writing and editing stories, designing layouts, selling and advertising, and providing journalistic coverage at school events. The course is entirely laboratory-based with each student becoming an editor of a section. Access to a digital camera and computer knowledge is beneficial. The course requires out-of-class time to complete assignments.

- **Note: Yearbook is a class where students are treated as professionals. Students need to be motivated, organized, and hard-working and will be held accountable to the team for their actions and final product.**

#### **M180 Graphic Novels - 0.5 Credit**

- *Prerequisite - Grades 6 and 7 only*
- Since the 1980s, the graphic novel, or long-form comic, has become a popular and accomplished literary and artistic form. Transcending its origins in pulp fantasy and adolescent entertainment, this evolving and hybrid medium represents an emerging new literature of our times in which word, picture, and typography interact meaningfully and which is in tune with the complexity of modern life. This course offers a survey of some of the best graphic novels of the last thirty years, and it provides the skills for reading comics critically in terms of what they say and how they say it.

#### **M185 Book Club - 0.5 Credit**

- *Prerequisite - Grades 6 and 7 only*
- In this course, students will meet in small, heterogeneous groups to discuss a book that they have all read or listened to. Through sharing their thinking, students will build a richer understanding than any one student could gain from independent reading alone.
- Students will be introduced to the main story elements such as plot, characters, and setting. However, understanding a book deeply goes beyond that. Book clubs delve into a character's motivations, the relationships between protagonists and antagonists, themes, metaphors, and more so that students both understand an author's purpose and begin to draw their own conclusions.
- Book clubs create space for students to talk, ask questions, and interact with peers on a level that other reading groups in school or at home often can't.

### **Mathematics (Graduation Requirement 4 Credits)**

#### **200 Algebra I\*\*-- 1 Credit**

- *No Prerequisite*
- Students will master the fundamental algebraic skills such as operations, algebraic expressions, solving equations, graphing; linear, quadratic, and exponential functions; probability and statistics. In addition, the course deals with the fundamental operations of polynomials, linear



equations, linear inequalities, quadratic equations, factoring, fractional equations, radicals, and radical equations.

- Supplies– 3-ring binder, dividers, composition notebook, TI-84 (or later) graphing calculator, loose leaf paper (graphing and lined), colored pencils.

### 210 Geometry\*\* – 1 Credit

- *Prerequisite– Successful completion of Algebra I*
- Students will gain a further understanding of geometric relationships and learn to make formal mathematical arguments about geometric situations. Geometry promotes deductive reasoning, through the study of proofs, along with a more concrete understanding of the mathematics of working with shapes in two and three dimensions, along with the concepts of surface area and volume.
- Supplies– 3-subject notebook, 3-ring binder, loose leaf paper, geometry toolkit (protractor, compass, straightedge/ruler), pencils, calculator.

### 220 Algebra II– 1 Credit

- *Prerequisite– Successful completion of Algebra I and Geometry*
- Students will gain a further understanding of the following topics: linear equations, inequalities, graphs, polynomials, radical expressions, quadratic equations, functions, exponential and logarithmic expressions, sequences and series, probability and trigonometry.
- Supplies– 3-subject notebook OR binder with loose leaf paper, TI-83/TI-84 graphing calculator, pencils.

### 222 Algebra II/Precalculus– 1 Credit

- Students who have successfully completed Algebra I and Geometry will gain a further understanding of the following topics: linear equations, inequalities, graphs, polynomials, radical expressions, quadratic equations, functions, exponential and logarithmic expressions, sequences and series, complex numbers, advanced trigonometry, and limits.
- Successful completion of this course will fully prepare a student for college-level calculus and statistics classes.

### 230 Pre-Calculus– 1 Credit

- *Prerequisite– Successful completion of Algebra I, Geometry, Algebra II*
- This course is designed for students who plan to take Calculus at the college level.
- Students will expand their knowledge from Algebra II and then are introduced to more complex Calculus and Trigonometry topics such as series, sequences, limits, polar equations, vectors, and matrices.
- Supplies– 3-subject notebook OR binder with loose leaf paper, TI-83/TI-84 graphing calculator, and pencils.

### 240 Financial Literacy/

### 241 Economics-- 1.0 Credit

- *Prerequisite– Grades 9 - 11*

- The mathematics necessary for daily living is embedded in the content that directly relates to financial decisions adults make in their daily lives. Students will be introduced to the topics of budgeting, buying a home and car, income taxes, insurance, etc. In addition, this course examines financial matters such as investing, student loans, debt repayment, credit cards, risk management, and budgeting. Students engage in hands-on scenarios in which they will learn to prepare for, overcome, and avoid financial crises.
- This course introduces students to real-world concepts related to personal finance and money management. Based on the skills and knowledge applied in this course, students will develop financial goals, and create realistic and measurable objectives to be financially literate and money smart.
- Students will learn how to use Google Sheets/Excel for simple mathematical operations and for creating tables and graphs.
- Other topics covered are based on student interest.
- Supplies– notebook, simple calculator, pencils.

### **250 Real World Math - 1.0 Credit**

- *Prerequisite– Successful completion of Algebra I*
- This course provides students with the opportunity to extend their knowledge from previous coursework in Mathematics, to deepen their thinking about mathematical concepts, and to apply skills in real life contexts using multiple approaches and technology. Students will also further develop their problem-solving skills to be successful in college math courses.
- The mathematics necessary for daily living is embedded in the content that directly relates to financial decisions adults make in their daily lives. The mathematical formulas, functions and graphical representations used in the course assist students in making sense of the world around them through mathematical modeling and equip them with the ability to make sound financial decisions based on data.
- Critical thinking and problem solving, with relevant topics met in everyday life.

### **255 Business Algebra - 1.0 Credit**

- The business algebra course is structured to develop key skills in word problems, critical thinking, real-world modeling, and statistics.
- Covering diverse topics, the curriculum is designed to provide an understanding of algebraic concepts applicable in business contexts.
- Focuses include linear equations and inequalities, linear programming, matrices and applications, functions, graphs, and their applications, applications of exponential and logarithmic functions, finance (interest, annuities, and amortization), and real-world statistics and big data.

### **260 AP Calculus AB - 1.25 Credit**

- This calculus course delves into the fundamental concepts of rates of change and accumulated change, positioning itself as the language of physics and engineering.
- Essential for applied STEM fields like biology, chemistry, engineering, and computer science, the course enables a comprehensive understanding of mathematical representation to model the world effectively.

- The curriculum covers both differential and integral calculus, equivalent to a semester-long Calculus I college course, with homework policies and exams mirroring a college setting.
- The course culminates in the AP Calculus AB test in May, offering the opportunity for college credit.
- The Mathematical Practices and Big Ideas of AP Calculus AB, such as Change, Limits, and Analysis of Functions form the foundational principles guiding students through the course.

**M260 Math 6** - 1.0 Credit

**M265 Math 7** - 1.0 Credit

**M270 Math 8** - 1.0 Credit

### Science (Graduation Requirement– 3 Credits)

#### **300 Physical Science**– 1 Credit

- *Prerequisite*– Successful completion of/current enrollment in Algebra I
- Hands-on/Lab-based course
- Students will apply math concepts to the following topics: scientific inquiry, matter, atoms, and the periodic table, ions and bonding, chemical and nuclear reactions, forces of motion, energy, waves, and electricity.

#### **310 Biology\*\***– 1 Credit

- *Prerequisite*– Sophomore, Junior, or Senior status
- Students will investigate the composition, diversity, complexity, and interconnectedness of life on earth.
- Students will learn the fundamentals of cell biology, heredity, evolution, and biodiversity through a variety of modalities with a focus on laboratory experiences.
- Embedded throughout this study are the basic processes of inquiry, modeling investigations, reasoning, and the nature of science. Students learn to trace the historical development of scientific theories, ideas, ethical guidelines, the interdependence of science and technology, and the study of emerging issues.

**M380 Science 6** - 1.0 Credit

**M382 Science 7** - 1.0 Credit

**M384 Science 8** - 1.0 Credit

### Science Electives

#### **320 Anatomy and Physiology**– 1 Credit

- *Prerequisite*– Successful completion of Biology

- This is a lab-based course.
- Students will explore the structure and function of the human body with each level of the biological organization of cells to organ systems with an emphasis on their interconnectedness at each level. In doing so, students will also consider current biological health issues and perform a cat dissection as a final evaluation.
- This course will study the following subjects: histology (types of tissues), skeletal and muscular systems, integumentary system, digestive system, respiratory system, excretory system, circulatory system, immune system, nervous system, endocrine system, and reproductive system. Students will collaborate on numerous projects utilizing informational technology and professional resources. This class is particularly beneficial to students entering health-related fields and/or college degrees relating to biology.

### **330 Astronomy** – 0.5 Credit

- *Prerequisite– Junior or Senior status and successful completion of Physical Science*
- Astronomy is the scientific study of the contents of the entire Universe. Students will be introduced to the history and methods of astronomy along with the origin and history of the universe. This course provides the student with a study of the universe and the conditions, properties, and motions of bodies in space, astronomical instruments, and the celestial sphere. The scope will move through the earth, outward to the moon, planets, minor objects in the solar system, our sun, other stars, and galaxies, and involve the search for extraterrestrial life.

### **335 Geology** - 0.5 Credit

- *Prerequisite– Junior or Senior status and successful completion of Physical Science*
- This course introduces basic landforms and geological processes. Topics include rocks, minerals, volcanoes, fluvial processes, geological history, plate tectonics, glaciers, and coastal dynamics. Upon completion, students should be able to describe basic geological processes that shape the earth.

### **340 Earth Science** – 1 Credit

- *Prerequisite– Sophomore, Junior, or Senior status and successful completion of Physical Science*
- Students will examine how the earth formed, how it has evolved, and its functions while learning about its past, present, and future. This course has an underlying theme of Ohio geology specifically. Internal processes explored include volcanism, earthquakes, crustal deformation, mountain building, and plate tectonics. External processes include weathering, mass wasting, streams, glaciers, groundwater, deserts, and coasts.
- This is a lab-based course.

### **345 Natural Hazards** – 0.5 Credit

- *No Prerequisite*
- Students will analyze violent catastrophic phenomena that constantly occur on different parts of the earth while paying special attention to how these phenomena affect human activities.

**350 Forensic Science I – 0.5 Credit**

- *Prerequisite– Successful completion of Biology OR current enrollment of Biology with teacher approval*
- This is a lab-based course.
- This course focuses on the collection, identification and analysis of crime scene evidence. Emphasis will be placed on the methods that link suspect, victim, and crime scene. Laboratory exercises will include fingerprinting, handwriting analysis, anthropology, blood stain pattern analysis, hair and fiber examination, and DNA analysis. Case studies and current events will be explored.
- Students will learn how to observe and analyze evidence such as hair, fibers, fingerprints, blood, glass, impressions, and ballistics. Students will also learn how to review and analyze case studies. Students will use textbook readings, internet research, discussions with members of local law enforcement, and video case studies, to gain a better appreciation of the reality of forensics.

**351 Forensic Science II - 0.5 Credit**

- *Prerequisite– Successful completion of Biology and Forensic Science I*
- This is a continuation of Forensic Science I.
- Forensics topics may include: crime scene analysis (analyzing hair, fibers, textiles, fingerprints, blood, & DNA), forensic toxicology (toxicology techniques, analyzing drug & alcohol evidence), forensic anthropology, ballistics analysis, and psychological profiling.

**360 Zoology – 0.5 Credit**

- *Prerequisite– Successful completion of Biology OR currently enrolled in Biology with teacher Approval*
- Zoology is a course that will survey the nine major phyla of the Kingdom Animalia. Students will explore the diversity within the animal kingdom with a focus on the following major phyla: Porifera, Cnidaria, Platyhelminthes, Nematoda, Annelida, Arthropoda, Echinodermata, Mollusca, and Chordata. Students will study the evolutionary relationships and comparisons of body structures and functions across various phyla through multiple invertebrate dissections.

**370 Oceanography - 0.5 Credit**

- *Prerequisite– Successful completion of Biology OR current enrollment of Biology with teacher approval*
- This course is an introduction to the four basic disciplines of oceanography: biological, geological, chemical, and physical. Students will investigate the relevance of oceanography in contemporary issues. Students will also study the origin, development, and structure of ocean basins and their contents, as well as contemporary oceanic processes of geologic significance.

**375 Environmental Law - 1 Credit**

- *Prerequisite– Successful completion of Biology and Physical Science OR current enrollment of Biology/Physical Science with teacher approval*

- This course is an introduction to a broad variety of environmental laws. The course will focus on federal environmental law, regulation, and enforcement, with some discussion of domestic policy and international environmental law.
- Students will look at the major statutes and policies used, at both the federal and state levels, to protect humans and the environment against exposure to harmful substances, including the Clean Air Act, Clean Water Act, Superfund, and the Resource Conservation & Recovery Act.
- Through a series of in-class discussions and practical exercises, students in this course will learn not only black letter law but a practical way to apply environmental law in real world situations.

### **380 Principle of Biomedical Science**– 1 Credit

- *Prerequisite*– *Sophomore, Junior, or Senior status, and teacher recommendation*
- Students can take this to fulfill the life science requirement or as a non-science elective.
- Principles of Biomedical Science (PBS) is a full-year high school course in the PLTW Biomedical Science Program. This course serves to provide foundational knowledge and skills in fields such as biology, anatomy & physiology, genetics, microbiology, and epidemiology as well as engage students in how this content can be applied to realworld situations, cases, and problems.
- Through both individual and collaborative team activities, projects, and problems, students will tackle real-world challenges faced by biomedical professionals in the field. They will work with the same tools and equipment used in hospitals and labs as they engage in relevant hands-on work.
- Students will develop skill in technical documentation to represent and communicate experimental findings and solutions to problems. In addition, students will explore how connections to other disciplines such as computer science and engineering shape the future of medicine and practice collaboration techniques that will help them connect with professionals across any field.

## **Social Studies (Graduation Requirement– 3 Credits)**

### **400 American History\*\*** – 1 Credit

- *No Prerequisites*
- The aim of American History is to provide students with the knowledge and understanding of our nation’s recent past required to more effectively respond to its present, prepare for its future, and to serve as responsible participants in the American democracy. Major cultural, political, social, and economic trends are emphasized.
- Students will examine the history of the United States of America from 1877 to the present. The events that the students will examine and analyze are as follows: the expansion of the rights and roles of its citizens, how the episodes of the past have shaped the nature of the country today, and understanding how these events came to pass and the meaning they hold with today’s citizens.

### **410 World History** – 1 Credit

- *No Prerequisite*
- Students will explore world events from 1600 to the present. Students will explore 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; all while enhancing their skills in analyzing primary and secondary sources from multiple perspectives to draw conclusions.

#### **420 American Government\*\***– 0.5 Credit

- *Prerequisite– Successful completion of American History*
- Students examine the fundamentals of the American government through the Founding Documents, and how the American people govern themselves at the national, state, and local levels. Students explore the basic structure of the U.S. government and focus on skills needed to become effective, participatory citizens.
- Attention is given to the institutions and processes that create public policy. The strengths and weaknesses of the American political system are discussed, along with the role of citizens in a democracy

### **Social Studies Electives**

#### **405 History of Sports in America** – 0.5 Credit

- *Prerequisite – Successful completion of OR currently enrolled in American History with teacher recommendation*
- Students will explore the ways in which sports have developed at the collegiate and professional levels. Students will study the developments of the games athletes play, and analyze the social changes inspired by the athletes themselves. Through guest speakers of major sports executives around the Columbus area, students will gain a better knowledge base of current sport governance.

#### **415 Introduction to Western Philosophy** - 0.5 Credit

- *No Prerequisite*
- Students will explore various Western philosophies throughout time beginning in Ancient Greece to modern day philosophers.

#### **425 Human Geography** – 0.5 Credit

- *Prerequisite– Sophomore, Junior, or Senior status*
- Students will be introduced to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth’s surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences.

#### **430 American Legal Tradition** – 0.5 Credit

- *Prerequisite– Sophomore, Junior, or Senior status and successful completion of OR enrolled in World History with a teacher recommendation*
- Students will examine in-depth America’s third branch of government: The Judicial Branch. Students will analyze the landmark U.S. Supreme court cases and develop an understanding of how the Judicial Branch has shaped public policy, and social norms, and redefined the Constitution of the United States of America.
- This is a project-based and research-based course that will allow students to interpret and argue the merits of legal documents.

#### **432 Introduction to Psychology – 0.5 Credit**

- *No Prerequisite*
- Students will focus on the study of human behavior, as an introduction to the field of psychology. Students will be introduced to the following topics: physiological principles, terminology, major theories, careers, methods of experimentation, and practical applications. Students will also examine the dynamics of human behavior as it is influenced by cultural and social stimuli. Special topics include personality development, problem-solving, group dynamics, and motivation.

#### **434 Psychology of Extraordinary Beliefs - 0.5 Credit**

- *Prerequisite - Sophomore, Junior, Senior status*
- A study on various extraordinary beliefs including UFO’s, magic, mysticism, and the paranormal among others through a lense of psychology and culture.
- Students will understand why individuals ascribe to these beliefs, cultural reactions to the beliefs, and history that led to the creations of these myths.

#### **435 Psychology of Happiness - 0.5 Credit**

- *Prerequisite – Grade 10, 11, or 12, and Previous Psychology Course*
- Students will explore the psychology of happiness through science and culture, including various worldviews on the definition of happiness and how to attain it.

#### **438 AP Psychology - 1.25 Credits**

- *Prerequisite - Senior status, or permission of instructor*
- This course is the equivalent of an introductory college course in psychology. The course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major fields within psychology. They also learn about ethics and the methods psychologists use in their science and practice.
- Students are expected to take the AP Psychology Exam at the conclusion of the course. Depending on the score achieved on this test, students may be granted college credit or allowed to enroll in upper-level courses as a freshman in college.

#### **440 Introduction to Sociology – 0.5 Credit**

- *No prerequisite*



- Students explore the general behavior of people in groups. Topics include socialization, social, racial, and ethnic interactions, social change, cultural diversity and conformity, collective behavior, the study of social life, and competition in society.
- The course promotes civic responsibility and respect for individual rights by analyzing demography, culture, social structure, social constructions, social institutions, and social stratification. Issues such as deviant behavior, the influence of the electronic media, race and ethnic relations, and the extremes of wealth and poverty as well as a focus on marginalized communities in an interdependent globalized society will be examined.

#### 442 AP African American Studies - 1.25 Credit

- *Prerequisite - American History, Sophomore, Junior, Senior status*
- AP African American Studies is an interdisciplinary course that examines the diversity of African American experiences through direct encounters with rich and varied sources. Students explore key topics that extend from early African kingdoms to the ongoing challenges and achievements of the contemporary moment.
- This course includes a required Individual Student Project.

#### 445 American Protest Music - 0.5 Credit

- *Prerequisite– Junior or Senior status*
- The complex interrelationship between and among music, media, commerce, political consent, and social dissent has both shaped and reflected the crucial social and political movements of American history, profoundly impacted the lives of individual Americans, and provided an economic foundation for a protest music industry.
- Using both topical and chronological frameworks, this course examines musical practice, evolving media technologies, as well as selected political, social, and commercial enterprises engaged in the creation and distribution of socio-political commentary and protest of which music is a central feature.
- Based on the Osu music department syllabus for music 431

#### 450 Women’s Studies– 0.5 Credit

- *Prerequisite– Sophomore, Junior, or Senior status*
- Students will explore the social advancement of women through American history. Some discussion of the status of women from a more global perspective will occur. Topics of women’s involvement in American history include health, history, political activism, and how gender stereotypes affect the learning process.

#### 452 Street Law - 0.5 Credit

- *Prerequisite– Junior or Senior status*
- Street Law is a half year-long course that introduces students to legal concepts and analytical skills.
- Street Law was started by a group of Georgetown Law students in 1972 and is still taught by Georgetown Law students today. The purpose of Street Law is to help students learn about their rights and responsibilities and to encourage them to think critically about the law.

- The program explores how law affects students' lives and ways that law can be used to improve society.

#### **455 Contemporary World Issues – 0.5 Credit**

- *Prerequisite – Successful completion of OR current enrollment in World History with a teacher recommendation*
- Students examine the dynamics of global interactions among nations and regions and the issues presented that affect all of humanity. These dynamics include competing beliefs and goals, methods of engagement, and conflict and cooperation.
- Through the lens of a geo-political world, current events, political debate, and how the past impacts present-day foreign and domestic policy of nations, regions, and international systems and organizations will be analyzed.
- This is a project-based course.
- Students will learn about the impact of global issues through service learning projects.

#### **460 World Religions - 0.5 Credit**

- *Prerequisite - Freshman or Sophomore status*
- This semester course will examine and compare the various major religions around the world, including ancient religions of the Near East, Hinduism, Buddhism, Confucianism, Shinto, Judaism, Christianity and Islam, with an emphasis on finding the common themes to all religions. Strong reading and writing skills will be developed throughout the year and emphasis is placed on the ability to think critically. Students will develop an understanding of the nature and role of religion in human societies, both non-Western and Western, and will have an opportunity to analyze the present and future significance of religious thought and practice.

#### **465 Child Development - 1.0 Credits**

- *Prerequisite - Junior or Senior status*
- Students will learn how to promote physical, social, emotional, and cognitive development, essential skills in teaching, leadership, management, and lesson planning, how to establish a safe and developmentally-appropriate environment for children.
- Content to be covered will include child development, foundations of education, and classroom management. Students will also learn from guest speakers, and classroom observations and participate in the elementary school setting twice per week. This course will give students the opportunity to experience a career in education.

#### **470 Holocaust and Genocide - 0.5 Credit**

- *Prerequisite - Sophomore, Junior, Senior status*
- The Holocaust and Genocide is a semester long course that is taught in two parts. Part one covers the events leading up to and surrounding the Holocaust. For example we will cover in detail the history of anti-Semitism toward the Jews, the Nazi rise to power and the progression of the Holocaust, children of the Holocaust, the aftermath of the Holocaust, Resistance movements and those who put their lives on the line to protect Jews from the Nazis and current issues of anti-Semitism.

- Part two will cover other genocides or crimes against humanity that have occurred or are occurring by continent. For example we will cover in detail Native Americans, the Armenian Genocide, Rwanda and Darfur, Cambodia, etc. We will debate whether certain atrocities deserve the label of genocide or not and discuss possible ways to eliminate genocides from occurring.

#### **475 Philosophy for Social Justice - 0.5 Credit**

- *Prerequisite - Sophomore, Junior, Senior status*
- A study on the social justice movements in American society beginning in 1492.
- Focuses will be on people of color, LGBTQ+, religious minorities, and women gaining additional rights through studying of John Locke among other philosophers, founding American Documents, Supreme Court cases, and social justice movements.

#### **480 Introduction to French and French Culture - 0.5 Credit**

- *Prerequisite - Sophomore, Junior, Senior status*
- A variety of cultural knowledge from French speaking countries is presented and when possible, students are asked to compare their home culture to the target language culture. Class material is presented using a variety of resources including authentic materials when appropriate. Unit topics include an introduction to the French World, student likes/dislikes, family and home, school life and at a café.
- Students also become acquainted with the French-speaking world and its people and gain insight into the cultural similarities and differences between them and the United States

#### **482 Career Practicum - 0.5 Credit**

- *Prerequisite - Junior or Senior status*
- Students will explore various jobs within the school and shadow/assist employees in order to understand various job roles within the school and gain a variety of skills.

#### **485 Entrepreneurial Skills - 0.5 Credit**

- *Prerequisite - Sophomore, Junior, Senior status*
- This course focuses on basic business skills through both an economic and societal viewpoint.
- Beginning in a study of successful businesses, students will learn skills such as business leadership and management, branding, marketing, resume building, and interviewing amongst others.
- This class will culminate with students creating business proposals to pitch to their peers.

#### **M490 MS Life Skills - 0.5 Credit**

- *Prerequisite - Grades 7 & 8 only*
- This course will focus on areas such as self-awareness, self-management, resilience, growth mindset, problem-solving, critical thinking, effective communication skills, decision-making, creative thinking, interpersonal relationship skills, self-awareness skills, empathy, coping with stress and emotions, and communication.
- This will be an interactive class, using role plays, games, puzzles, group discussions, and a variety of other techniques to keep students wholly involved in the sessions.
- Topics covered will include the following:

- Cooking for themselves
- Doing their own laundry.
- Using public transit. ...
- Taking responsibility for simple household chores
- Maintaining a calendar/planner.
- Calculating a 15% tip
- Writing cursive and signing your name
- Fixing a flat tire

**M492 Social Studies 6 - 1.0 Credit**

**M494 Social Studies 7 - 1.0 Credit**

**M496 Social Studies 8 - 1.0 Credit**

### **Fine and Performing Arts** (Graduation Requirement– 1 Credit)

**500 Visual Art**– 0.5 Credit

- *No Prerequisite*
- This is a comprehensive introduction to the visual arts with an emphasis on visual perception, effective problem-solving, and craftsmanship in the use of a variety of art media. Drawing is utilized as an introduction to the basic elements of art including the portrayal of space, shape, color, and form. Students examine visual imagery, demonstrate technical skill and craftsmanship, and explore various methods of art criticism. A variety of mediums will be used.
- Supplies - sketch pads, pencils

**510 Studio Music** – 0.5 Credit

- *No Prerequisite*
- The major emphasis of this course is to develop student achievement through the study of current music technology. The course provides a variety of opportunities, including a study of the basic nature of sound as it is applied to and organized by musical tone; manipulation of sound using various materials and electronic devices; the study of contemporary developments in methods of tone production, tone modification, and musical performance. The student is provided with opportunities to examine and study the fundamental components including, where applicable, the perceptual, creative, historical, and critical.

**515 Choir** - 1.0 Credit

- *No Prerequisite - available to all HS students*
- Vocal production, correct breathing, good diction, correct posture and the carrying of an independent vocal part are focused on in this course. This choir may perform at regular concerts with the possibility of community performances. Literature performed is based on the particular abilities of the students in the group. Concert attendance is required.
- Evaluation will be based on class participation, concert attendance, written tests, and individual performance.

### **520 Introduction to Theater– 0.5 Credit**

- *No Prerequisite*
- Students will learn the basics of Theater. This includes but is not limited to the history of theater, basics of script reading and acting, learning Improv, memorization, and analyzing various mediums of a single script. Students will understand and be able to apply the terminology and vocabulary relative to performance theater, and explore the application of improvisation and acting methods,
- Supplies– Folder, pens, highlighters

### **525 Interior Design I 0.5 Credit**

- *Prerequisite - Grades 10-12*
- Students will learn interior design principles, home design principles, interior design business practices, be familiar with design software, floor plan creation, room design, and redesign, color theory, custom furniture orders, budgeting, design boards, and more.

### **530 Digital Photography - 0.5 Credit**

- *This course is for students in Grade 9-12 only.*
- In Digital Photography, students will investigate photographic techniques and aesthetic principles of subject, light, and composition. Students will learn fundamental techniques of photographic artmaking for still photography. They will have a deeper understanding of how to use the settings of their DSLR or smartphone camera to create successful images, be able to composite aesthetically pleasing images and edit images in the student's own artistic style.
  - Learn the basics of digital photography
  - Understand how to use your camera settings successfully (DSLR or Phone)
  - Able to create strong images using techniques taught in lessons and demos, like lighting and composition.
  - Students will gain knowledge and skills on creating a positive yet constructive atmosphere.
  - Students will engage in writing and/or orally presenting on other artists and their work to heighten their terminology and ways of conversing on art. Students will be learning how to write successful artist statements on their artwork.

- Students must use elements and principles of art and design while continuing to learn more about aesthetics and intentional artistic choice.

- Evaluation will be based on the individual's artistic aesthetic, strong images, art criticism, and written/oral conversation on their art and other artists.

### **M535 - Movie Making - 0.5 Credit**

- *This course is for Students in Grade 8 only*
- This is an introductory course. Students will create a Public Service Announcement, Music Video, Documentary, and a collaborative Short Film. Students will learn the basics of cinematography, editing, directing, and screenwriting. Class time will be divided between editing projects, critiques, and watching clips that are significant in film history. Students will be required to supply their own camera and editing platform (a smartphone and iMovie on a laptop are adequate to get started).

### **540 Media Arts Production - 1.0 Credit**

- *No Prerequisite*
- Students will learn the fundamentals of content creation for film, radio, television, social media, and related industries.
- Fundamental skills taught include producing, shooting, and editing video, as well as the basics of lighting and sound production.
- Some topics we will explore include television production, documentary filmmaking, digital cinema, video content development, podcasting production, live event recording, and sound design.

### **545 Sculpture Art Elective - 1.0 Credit**

- *Prerequisite - Must have taken visual art or an art elective*
- This is a 3D studio course using a variety of materials including but not limited to paper, cardboard, foam core, wire, and clay.
- Students will use creative thinking and reasoning skills to perceive concepts and ideas to develop works.
- Students will resolve 3D construction problems related to design theory.
- Students will explore historical and modern sculptural mediums, techniques, artists and their culture.
- Students will gain knowledge and skills on creating a positive yet constructive atmosphere. They will apply and defend the selection of materials and techniques.
- Students will apply self-assessment and goal-setting practices to revise artworks and document personal growth.
- Students will connect universal themes in the visual arts to personal life experiences.
- Students will investigate emotional experiences through personal and collaborative artistic processes.
- Students must use elements and principles of art and design while continuing to learn more about aesthetics and intentional artistic choice.
- Evaluation will be based on the individual's artistic process and choices, craftsmanship, art criticism, and written/oral conversation on their art and other artists.
- Possible Projects include the following:

- Clay Sculpture
- Paper Pulp Sculpture
- Book Sculpture
- Relief Sculpture
- Plaster Sculpture
- Felting Sculpture

### **550 Sculpture with Mixed Media - 0.5 Credit**

- *Prerequisite - Grades 10-12, Serious Art students only*
- *This is a pilot program.*
- This course is designed as an introduction to the medium of ceramics and three-dimensional expression. Emphasis is placed on studio practice and skill development of ceramic techniques as well as understanding art's cultural and historical context in past and present societies.
- A variety of techniques and processes will be explored that will develop skills in the making of both functional and sculptural objects. Students gain knowledge of clay and glaze terminology. This course encompasses exploration and practice in the art-making process, creating and understanding aesthetic design, as well as art criticism and study of contemporary and traditional works.
- Evaluation is based on aesthetic design, craftsmanship, art criticism and the knowledge of vocabulary and processes.

### **560 Fiber Arts - 0.5 Credit**

- *Prerequisite - Open to all students grades 6 - 12 (serious art students preferred)*
- This course is an introduction to fiber art. Emphasis is placed on studio practice, skill building and development in multiple techniques and mediums involving fiber, as well as the creative process and craftsmanship.
  - Students will explore historical and modern fiber mediums, techniques, artists and their culture.
  - Students will create fine art and functional pieces by investigating their personal creative process and documenting their ideas, skill building exercises, etc.
  - Students will gain knowledge and skills on creating a positive yet constructive atmosphere.
  - Students will engage in writing and/or orally presenting on other artists and their work to heighten their terminology and ways of conversing on art. Students will be learning how to write successful artist statements on their artwork.
  - Students must use elements and principles of art and design while continuing to learn more about aesthetics and intentional artistic choice.
  - Evaluation will be based on the individual's artistic process and choices, craftsmanship, art criticism, and written/oral conversation on their art and other artists.

Intended Projects:

- Weaving
- Embroidery
- Batik
- WoodBlock Printing

**M570 Art 6**

**M572 Art 7**

**M574 Art 8**

**M576 Music 6**

M578 Music 7

M580 Music 8

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**Health and Physical Education ( Graduation Requirement, ½ Credit Each)**

**600 Health**– 0.5 Credit

- *No Prerequisite*
- Students learn about the importance of nutritional food, the harmful effects of drugs and alcohol, venereal diseases, dating violence, organ and tissue donation, and prescription drug abuse (opioids).
- Students will receive instruction on the proper interactions with peace officers.
- Some content may be mature.

**610 Nutrition for a Healthy Lifestyle**- 0.5 Credit

- *No Prerequisite*
- A study of the role of nutrition in establishing, promoting and maintaining good health. The composition and functions of foods, nutrition needs throughout the life cycle, and contemporary nutrition concerns are included in the course.
- Content may include processes, chemistry, digestion, absorption, metabolism, and utilization of nutrients.

**620 Medical Terminology** - 0.5 Credit

- *Prerequisite - Grades 10-12*
- Emphasis will be placed on terms that are practical and commonly found in the day-to-day work of all allied health professions. This concise course gives basic principles for understanding the language with an overview of terms from many areas of medicine.
- Students learn how word parts determine the meaning of medical terms.
- Terminology and abbreviations pertaining to anatomy, physiology, pathology, diagnostic processes/procedures and medical/surgical interventions by body system.

**630 Physical Education**– 0.5 Credit

- *No Prerequisite*
- Students will become “physically literate individuals who have the knowledge, skills, and confidence to enjoy a lifetime of healthful physical activity” (ODE).
- *\*Students are required to complete one-half unit of Physical Education for graduation.* Physical Education courses require a minimum of 120 hours of course instruction to earn a one-half unit of credit.

**635 Conditioning I** - 0.5 Credit

**636 Conditioning II** - 0.5 Credit



- *No Prerequisite*
- The skills learned apply to all competitive programs. This course will cover topics including, but not limited to, impact of weight training on fitness and injury prevention, team dynamics, importance of hydration/diet in athletic performance, mental focus and attitude impact on excellence, and the importance of cross training.
- Units include: core strength development, sport specific fundamental skills, weight lifting, speed and agility. Students also learn physical excellence training skills such as determining resting, training and maximum heart rates, impact of proper body mechanics, and injury prevention exercises

**M640 PE 6**

**M642 PE 7**

**M644 PE 8**

### **700 Freshman Seminar – 0.5 Credit**

- *Required for all freshmen*
- *No Prerequisite*
- Students will gain a working knowledge of what is expected of them in their high school career and beyond.
- This course will take place twice a week during the student's study hall period.

### **750 Internship - 1.0 credit**

- *Prerequisite - Junior or Senior status, and permission of Administration*
- An internship is a way for students to quickly gain foundational work skills, knowledge, and experience in any career field. An internship allows students to start with basic work skills and from there, they can quickly build on that foundational skillset. Oftentimes, building a solid base of experience at one position can easily translate to other fields that are also of interest, therefore expanding future career possibilities!
- This is a chance for students to make connections and network
- Internships are much more than skills and knowledge. A large component of an internship is making connections and building relationships – students never know when a connection made at an internship will turn into a job offer! An internship also means students will be surrounded by like-minded individuals who share a common interest.

## World Languages

### **800 Spanish I - 1 Credit**

- *Open to all students grades 9 - 12*
- Spanish I provides an introduction to basic communication skills of writing, reading, listening, and speaking in Spanish. Students will also become acquainted with Spanish-speaking countries and gain some insight into the cultural similarities and differences between those Hispanic countries and the United States.

### **810 American Sign Language I - 1.0 Credit**

- *Open to all students grades 9 - 12*
- This course introduces the fundamental elements of American Sign Language within a cultural context. It focuses on everyday interactions and brief monologues in ASL.
- Grammar and vocabulary are presented in context, using ASL as the language of instruction.
- Students will examine social, cultural, linguistic and educational experiences, Deaf history, and medical topics.
- Additional information about the Deaf community and culture is introduced.

### **811 American Sign Language II - 1.0 Credit**

- *Open to all students grades 10 - 12, with credit for American Sign Language I.*
- This course continues the fundamental elements of American Sign Language within a cultural context. It focuses on everyday interactions and brief monologues and conversations in ASL.
- Grammar and vocabulary are presented in context, using ASL as the language of instruction.
- Students will examine social, cultural, linguistic and educational experiences, Deaf history, and medical topics.
- Additional information about the Deaf community and culture is introduced.

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## Technology

### **900 Technology and Production of Music - 1.0 credit**

- *Open to all students grades 9 - 12*
- Learn about the music production process—including recording, editing, and mixing—and the tools available to you to create contemporary music on your computer. The contemporary tool is the Digital Audio Workstation (DAW), a piece of software that stores and organizes all the assets of a musical project.
- Explore the art of music production and how to make recordings that other people will love listening to. This course will teach you how to make emotionally moving recordings. You will learn to develop the most important tool in the recording studio: your ears.

#### **M910 Coding I - 0.5 credits**

- *Open to all students grades 7 - 8*
- Students will learn the basics of computer programming along with the basics of computer science. The material emphasizes computational thinking and helps develop the ability to solve complex problems. This course covers the basic building blocks of programming along with other central elements of computer science.
- Students will learn lines of code, algorithm development, simple sequences, arithmetic tasks, asynchronous tasks, function blocks, and low-level languages. Coding creates a set of instructions for computers to follow. These instructions determine what actions a computer can and cannot take. Coding ultimately allows programmers to build programs, such as websites and apps.
- Students will learn coding beginning with simple codings like Scratch, Robot Turtles, and Lego Maze.

#### **M920 Technology 6**

#### **M922 Technology 7**

#### **M924 Technology 8**

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## **CPA Virtual Academy**

### **These courses are self-guided and asynchronous**

CPA offers a variety of online courses that are self-guided. These courses are offered outside of the regular school day to provide course flexibility. These courses can be used in support of early graduation, flexibility with scheduling, or catching up on credits missed. The courses count toward your GPA and are monitored by CPA teachers. DCS Virtual courses do not require real-time interactions; instead, content is available online for students to access when it best suits their schedule.

These courses count toward your GPA and will be denoted on your transcripts for the fulfillment of graduation requirements.

**NOTE: All Virtual courses will require a project at the end to be completed prior to granting credit. Project to be determined by administration.**

### 800 Cybersecurity - 0.5 Credit

- **Cybersecurity for Everyone: University of Maryland**
- *Prerequisite - Junior or Senior status*
- <https://www.coursera.org/learn/cybersecurity-for-everyone>
- Cybersecurity for Everyone lays the groundwork to understand and explore the key issues facing policymakers attempting to manage the problem of cybersecurity, from its technical foundations to the domestic and international policy considerations surrounding governance, privacy, and risk management, to applications for achieving the goals of an enterprise, an institution, or a nation.
- This course is designed for students with some or no background in information technology, whether novice or active in the cybersecurity field (engineers and computer scientists will learn the broader context and business aspects of cybersecurity) and will provide the principles to understand the current debates shaping a rapidly evolving security landscape.

### 810 Coding - 0.5 - 1.0 Credit

- *Prerequisite - Grades 9 - 12*
- <https://www.sololearn.com/learn>
- *Students must complete 25 of the 30 courses to get 1.0 credit, and 15 of the courses to receive 0.5 credit.*
- Students will learn C, C#, C++, Python, Java, Java Script, Web Design, Redux, among others
- Students can also learn Web Development Fundamentals and Responsive Web Design

### 820 Game Theory - 0.5 Credit

- *Prerequisite Junior or Senior status*
- <https://www.coursera.org/learn/game-theory-1#syllabus>
- Popularized by movies such as "A Beautiful Mind," game theory is the mathematical modeling of strategic interaction among rational (and irrational) agents. Beyond what we call 'games' in common language, such as chess, poker, soccer, etc., it includes the modeling of conflict among

nations, political campaigns, competition among firms, and trading behavior in markets such as the NYSE.

- The course will provide the basics: representing games and strategies, the extensive form (which computer scientists call game trees), Bayesian games (modeling things like auctions), repeated and stochastic games, and more.

#### **822 Learn to Program: The Fundamentals - University of Toronto - 0.5 Credit**

- *Prerequisite Sophomore, Junior, or Senior status*
- <https://www.coursera.org/learn/learn-to-program?>
- Behind every mouse click and touch-screen tap, there is a computer program that makes things happen. This course introduces the fundamental building blocks of programming and teaches you how to write fun and useful programs using the Python language.

#### **840 Personal Finance - 0.5 Credit**

- *Prerequisite Sophomore, Junior, or Senior status*
- <https://www.time4learning.com/homeschool-curriculum/high-school-personal-finance.html>
- Fee: \$34.95
- Students will learn valuable principles on how to budget, helpful tools to use when planning and problem-solving strategies to make informed decisions. With that foundation, they'll move on to learning about the relationship between careers and income. They'll learn to calculate net worth and net income, explore various occupations and the income for each, and how income taxes work.
- A chapter dedicated to managing money teaches about the benefits of savings and checking accounts as well as the various types of banking institutions. Students will then explore common types of investments, and the risks and returns involved with each one. Students will also learn about credit and debt, and understand the importance of establishing good credit. The last chapter provides students with an introduction to economics in which they learn about different economic systems, entrepreneurship, and the laws of supply and demand.

#### **845 Financial Planning for Young Adults - 0.5 Credit**

- *Prerequisite - Junior or Senior Status*

- <https://www.coursera.org/learn/financial-planning>
- Offered by University of Illinois
- This course is designed to provide an introduction to basic financial planning concepts for young adults. The FPYA course is organized across eight separate modules within a 4-week window. Topics covered include financial goal setting, saving and investing, budgeting, financial risk, borrowing, and credit. Because financial planning is such a personal topic, you will be encouraged to define your own financial goals and objectives while we discuss concepts and provide tools that can be applied in helping you reach those goals.
- Within each module, you will view a combination of traditional lecture-style videos along with video vignettes that introduce financial topics for discussion among participants. The video vignettes provide a unique and exciting component to this course. Each vignette introduces a real-world scenario where financial decisions must be made and financial planning concepts can be applied. You will be challenged to think critically about each scenario and decide how you might come to a resolution if ever faced with a similar situation.

#### **850 OppU Financial Literacy Course - 0.5 Credit**

- *Prerequisite - Junior or Senior Status*
- <https://www.opploans.com/oppu/>
- This course includes 4 Modules: Spending, Budgeting and Saving, Credit, and Debt & Loans
- Understand the basics of [money management](#). Through financial literacy, you'll develop a mindset crucial to impacting your financial well-being. You'll learn how to take action to achieve your financial goals.
- By developing a financial literacy mindset, you will be able to positively impact your financial life.

NOTE: 860 and 862 should be taken together, and count as 0.5 Credit.

#### **860 Stanford Introduction to Food and Health - 0.25 Credit**

- *Prerequisite - Junior or Senior Status*
- <https://www.coursera.org/learn/food-and-health>
- Around the world, we find ourselves facing global epidemics of obesity, Type 2 Diabetes and other predominantly diet-related diseases. To address these public health crises, we urgently need

to explore innovative strategies for promoting healthful eating. There is strong evidence that global increases in the consumption of heavily processed foods, coupled with cultural shifts away from the preparation of food in the home, have contributed to high rates of preventable, chronic diseases.

- In this course, learners will be given the information and practical skills they need to begin optimizing the way they eat. This course will shift the focus away from reductionist discussions about nutrients and move, instead, toward practical discussions about real food and the environment in which we consume it.
- By the end of this course, learners should have the tools they need to distinguish between foods that will support their health and those that threaten it. In addition, we will present a compelling rationale for a return to simple home cooking, an integral part of our efforts to live longer, healthier lives.

#### **862 Child Nutrition and Cooking - 0.25 Credit**

- *Prerequisite - Sophomore, Junior, or Senior Status*
- <https://www.coursera.org/learn/childnutrition>
- Eating patterns that begin in childhood affect health and well-being across the lifespan. The culture of eating has changed significantly in recent decades, especially in parts of the world where processed foods dominate our dietary intake. This course examines contemporary child nutrition and the impact of the individual decisions made by each family. The health risks associated with obesity in childhood are also discussed.
- Participants will learn what constitutes a healthy diet for children and adults and how to prepare simple, delicious foods aimed at inspiring a lifelong celebration of easy home-cooked meals. This course will help prepare participants to be the leading health providers, teachers, and parents of the present and future.

#### **864 Global Adolescent Health - 0.5 Credit**

- *Prerequisite - Junior or Senior Status*
- <https://www.coursera.org/learn/youth-health>
- This course will explore the dynamic factors affecting the health and wellbeing of young people around the world, and how important it is for individuals, communities, and nations that we improve the health and life chances of this important population group.
- In this course we will adopt a life-course framework to take a holistic view of youth health and wellbeing. We will explore changing patterns of adolescent health and development, including

why adolescence is starting earlier and ending later; how puberty and adolescent brain development may shape future health; and how what happens in adolescence can affect the start to life for the next generation. We'll also look at the major health and social issues affecting young people and ways of addressing these through policy, practice, and programming.

### **866 Food Sustainability, Mindful Eating, and Healthy Cooking Specialization - 0.5 Credit**

- *Prerequisite - Junior or Senior Status*
- <https://www.coursera.org/specializations/food-sustainability-mindful-eating-healthy-cooking>
- This specialization is intended for anyone seeking to improve their health, protect our planet and build a stronger, more positive relationship with food. The courses aim to improve knowledge about the relationships between our health, our food, how our food is made, and our environment, while inspiring us to make decisions that will protect our health and the health of the environment. After completing the specialization a learner with no previous food, nutrition, sustainable, mindful eating, or cooking skills will be able to evaluate contemporary food choices for their impact on both human health and planetary sustainability, achieve stepwise personal behavior change towards healthier, more sustainable eating, prepare healthy, delicious meals using simple techniques and readily available ingredients, and incorporate into their lives, the practice of food mindfulness, dietary moderation, varied meal composition and self-compassion with regard to their eating behaviors and food choices.
- Students will be asked to apply the principles of sustainable, mindful eating and healthy cooking to plan and prepare a meal that will delight the eaters and protect our planet. You'll be asked to write about your decision-making process and how you applied the principles learned in this specialization to the planning and preparation of your planet-friendly, delicious and healthy meal.