

Concord Academy Petoskey High School

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Course Name	Course Description	Grades
Mathematics	The high school mathematics curriculum consists of Algebra I, Algebra II, and Geometry. Students use different mathematical manipulatives, integrate STEAM education, and use the Arts to make connections to real world applications. Students also analyze their personal goals for the future and put together a plan for success. Students are offered a 4th year math elective such as Personal Finance or Statistics or they may choose to take advanced coursework as Dual Enrolled students at the community college.	9-12
Algebra I	Students will take an in-depth look at the linear function. The slope of lines, the intercepts of lines and so on. They will also learn about the quadratic function, what it looks like, and how to graph it on the coordinate plane. Other topics will include integers and rational numbers, equations and inequalities, exponents and polynomials, factoring, graphing linear equations and inequalities, systems of equations and inequalities, radical expressions, relations, and functions.	9-12
Algebra II	Students will take this class following Algebra 1. Students will learn about many different functions. They will learn how to graph and write equations of different functions. They will learn to use the calculator to graph and explore graphs of functions. Topics covered include equations and inequalities, relations, functions, graphs, systems of equations and inequalities, polynomials, rational expressions, powers, roots, complex numbers, quadratic equations, exponential and logarithmic functions	9-12
Geometry	Students will take this class following Algebra 2. They will learn how to take information and manipulate it to find the answers to complex equations. Topics include polygons, perimeter, area, volume, similarity, circles, and basic trigonometry.	10-12
Personal Finance	Students will take this class their senior year to help ready themselves for the future. It will include topics of FAFSA , budgeting, investing and management of funds. Students will learn about taxes and insurance. Lastly, the student will learn about consumer skills.	12
English	At the high school level students read a variety of classic novels. Students read, write, and analyze texts, poetry and plays as well as write short stories, poetry, research papers, literacy analyses, and a variety of essay types. Technology is used to research, write, and present student work. Students may elect to increase the rigor of their studies by taking classes at the college level as Dual Enrolled students.	
English 9	Students will learn how to identify the author's use of craft & structure to propel the plot of a story. Students will learn how to compare themes between books that deal with the disparity in social classes as found in books like The Lord of The Flies and The Outsiders. Students will learn how Latin/Greek prefixes/suffixes change words related to grade-level-appropriate vocabulary. Additionally, students will learn to succinctly summarize text. Students will also read The Odyssey in Graphic Novel form to be exposed to literature from outside of the US as well as to understand color symbolism.	9
English 10	Students will focus on the patterns needed for effective persuasive arguments in writing and presentations. Students will learn how to research, cite sources, and create visually appealing presentations. Students will learn to support their persuasive arguments with rhetoric from outside sources that use ethos, pathos, and logos. Students will be exposed to historical allegories through books such as Animal Farm and Fahrenheit 451. Grade-level vocabulary will also be learned through classroom novels.	10

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English 11	Students will learn how to analyze story structure and patterns found in writing by reading Gothic literature and poetry written by Edgar Allan Poe. Students will expand upon their knowledge of rhetoric by researching a topic, writing a persuasive essay about the topic, and persuading their classmates to be interested in their research project. Students will engage in peer review throughout the process. Furthermore, students will use different writing formats to have an understanding of the differences between the following writing styles: expository, persuasive, and narrative. Students will engage in discussions and analysis of a novel of their choice with their peers. Students will be expected to continue learning age-appropriate vocabulary words.	11
English 12	Students will follow similar themes to their 11th-grade year but at a higher rigor. Students will conclude the year by creating resumes, cover letters, and reference sheets, and participate in mock job interviews.	12
Science		
Biology	Students in high school Biology use a STEM (Science, Technology, Engineering, and mathematics) approach to their learning. Students learn to become problem solvers, creators, and collaborators. Students learn about the chemistry of living organisms, how energy is part of our lives, cell, heredity, diversity of living organisms, plants, animals, and ecology.	9
Chemistry	Students in high school Chemistry use a STEM (Science, Technology, Engineering, and Mathematics) approach to their learning. Students learn to become problem solvers, creators, and collaborators. Students learn about properties and states of matter, atomic theory, the periodic table, chemical bonding, representation of chemical substances, equilibrium and reaction rates, solution chemistry, thermochemistry, thermodynamics, oxidation and reduction, electrochemistry, and nuclear and organic chemistry.	10
Anatomy and Physiology	Students in high school Anatomy and physiology use a hands-on approach, using labs and online simulations to learn about the human body. Students learn about root words, anatomy terminology, histology, integumentary system, bones, skeleton, muscular system, nervous system, endocrine system, cardiovascular system, respiratory system, immune system, digestive system, urinary system, and reproductive system.	11-12
Social Studies		
Social Studies	Students in high school study World History and United States History as well as Civics and Economics. There is an emphasis on mapping and geographic knowledge as well as cultural and historical studies via the Arts. At times students are given the freedom of self-directed learning through independent research and creative projects. Students explore careers through Xello and set goals for post high school experience and education.	
US History	High school students will focus on the later portion of United States History. There is an emphasis on mapping and geographic knowledge as well as cultural and historical studies via the Arts. At times students are given the freedom of self-directed learning through independent research and creative projects.	9-12
World History	High school students will focus on the later portion of World History. There is an emphasis on mapping and geographic knowledge as well as cultural and historical studies via the Arts. At times students are given the freedom of self-directed learning through independent research and creative projects.	9-12

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Economics	High School Students will experience an overview of both Microeconomics and Macroeconomics. Focus will be on the main economic issue of scarcity and the human response with emphasis on supply and demand, marginal analyses and the governments role in the economy. Students will enjoy a semester long stock market project.	9-12
Civics	High school students will study the foundation of our American government. Class focus will be on the three branches of government, their foundations in the Constitution, significant milestones through history and their modern roles and issues with an emphasis on the role of the people in our government. Students will participate in group activities and projects throughout the semester.	9-12
Electives		
Art I	In high school Art I, students continue increasing their self-sufficiency in all aspects of the art making process. Studies include the history of art in relation to time, location, technology, and culture; local, national, and world arts, artists, and art movements; as well as art fundamentals, artistic behaviors and techniques, and meaning-making. Students strengthen their critical thinking, engineering, and communication skills - as well as their understanding of aesthetics, audience, and artistic vision - through skill builders, STEAM challenges, choice media explorations and projects, and collaborative art-making. Areas of focus include drawing, painting, printmaking, collage, sculpture, ceramics, architecture, engineering, fabric arts, and digital media. Art I is designed for first year high school art students.	9-12
Art II	Art II builds on Art I, and is designed for second year high school art students. (Prerequisite: Art I)	9-12
Art III	Art III builds on Art II, and is designed for third year high school art students. (Prerequisite: Art II)	9-12
Art IV	Art IV builds on Art III, and is designed for fourth year high school art students. (Prerequisite: Art III)	9-12
Band	The high school band courses help students develop techniques for playing brass, woodwind, and percussion instruments and their ability to perform a variety of concert band literature styles. These courses may emphasize rehearsal and performance experiences in a range of styles and also include experiences in creating and responding to music. Individual parts are more technically advanced as the student progresses to more advanced levels of play.	9-12
Theater	Students practice improv and learn to memorize lines and analyze scripts for voice, sub-script, and characterization. Students participate in theater productions and develop acting skills such as diction, breath control, projection, and physical communication. Productions may be comedic, dramatic or musical in nature.	9-12
STEAM	Students will participate in Elementary through High School theater productions through the design and creation of sets, props and costumes. This hands on class involves construction, painting and other creative methods. Students are also responsible for tech and backstage aspects of live performances.	10-12
Foreign Language		

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Spanish I	The basis of Spanish 1 is cultural story units which include reading and telling stories, listening to music, as well as asking and answering questions on familiar topics. Students utilize memorized and practiced phrases & words to present information about themselves, their family and their basic needs or preferences. Students will also learn about cultural practices and products of Spanish-speaking countries to compare to their own cultural experiences.	9-12